



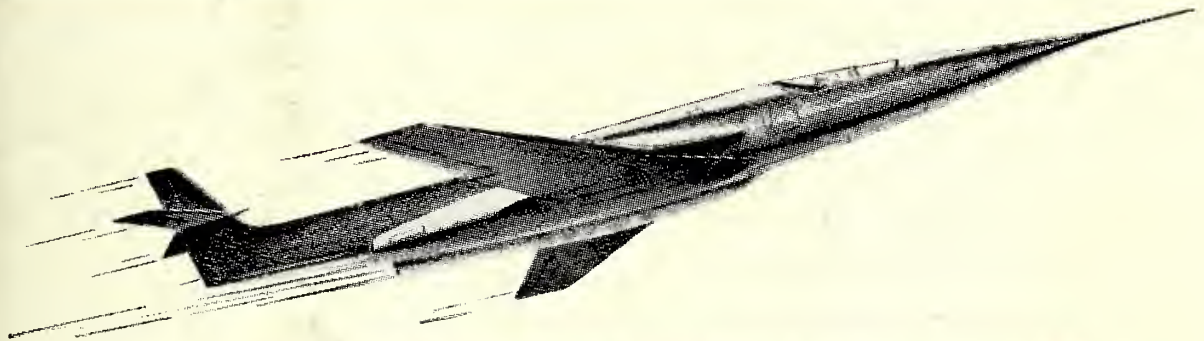
The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

FEBRUARY 23 1957



Well in the lead...

Penicillin-V Lilly is an effective oral penicillin that is stable in the acid form and is not inactivated by gastric secretions. For the first time in oral penicillin therapy, clinical results produced are consistently comparable with treatment by parenteral penicillin.

When the case calls for penicillin let Penicillin-V Lilly—the penicillin that “passes the acid test”—be your choice.

The average dose is 0.5 Gm. daily—125 mg. four times in 24 hours, increased in severe infections.

Available as

‘Pulvules’ 125 mg. (200,000 units), also 250 mg. and 60 mg. (Paediatric)

Suspension 62.5 mg. per 5 cc. For paediatric use.

and as TABLETS Penicillin-V-Sulpha, Lilly (Penicillin-V with Sulphonamides).

Lilly

PENICILLIN-V LILLY

ELI LILLY AND COMPANY LIMITED, BASINGSTOKE, ENGLAND

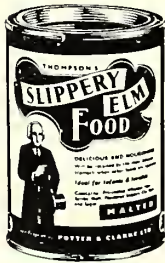


POTTER'S CATARRH PASTILLES



POTTER'S CRYSTALLISED CATARRH PASTILLES

THOMPSON'S SLIPPERY ELM FOOD



Available in 3 varieties:
•MALTED •UNMALTED
•WHOLEMEAL

Potter's PHARMACEUTICAL PRODUCTS

made by the sole manufacturers

POTTER & CLARKE LIMITED



POTTER'S ASTHMA REMEDY & CIGARETTES

Also POTTER'S ASTHMA SMOKING MIXTURE

Other good-selling Potter's lines:

- THOMPSON'S DANDELION COFFEE
- THOMPSON'S DANDELION COFFEE ESSENCE
- ANTEXEMA (Liquid & Granules)
- CHAMELEON OILS (Human & Veterinary)

THROUGH WHOLESALERS ONLY, PLEASE!

POTTER'S NEW RANGE OF PHARMACEUTICAL PASTILLES



GEE'S LINCTUS B.P.C.



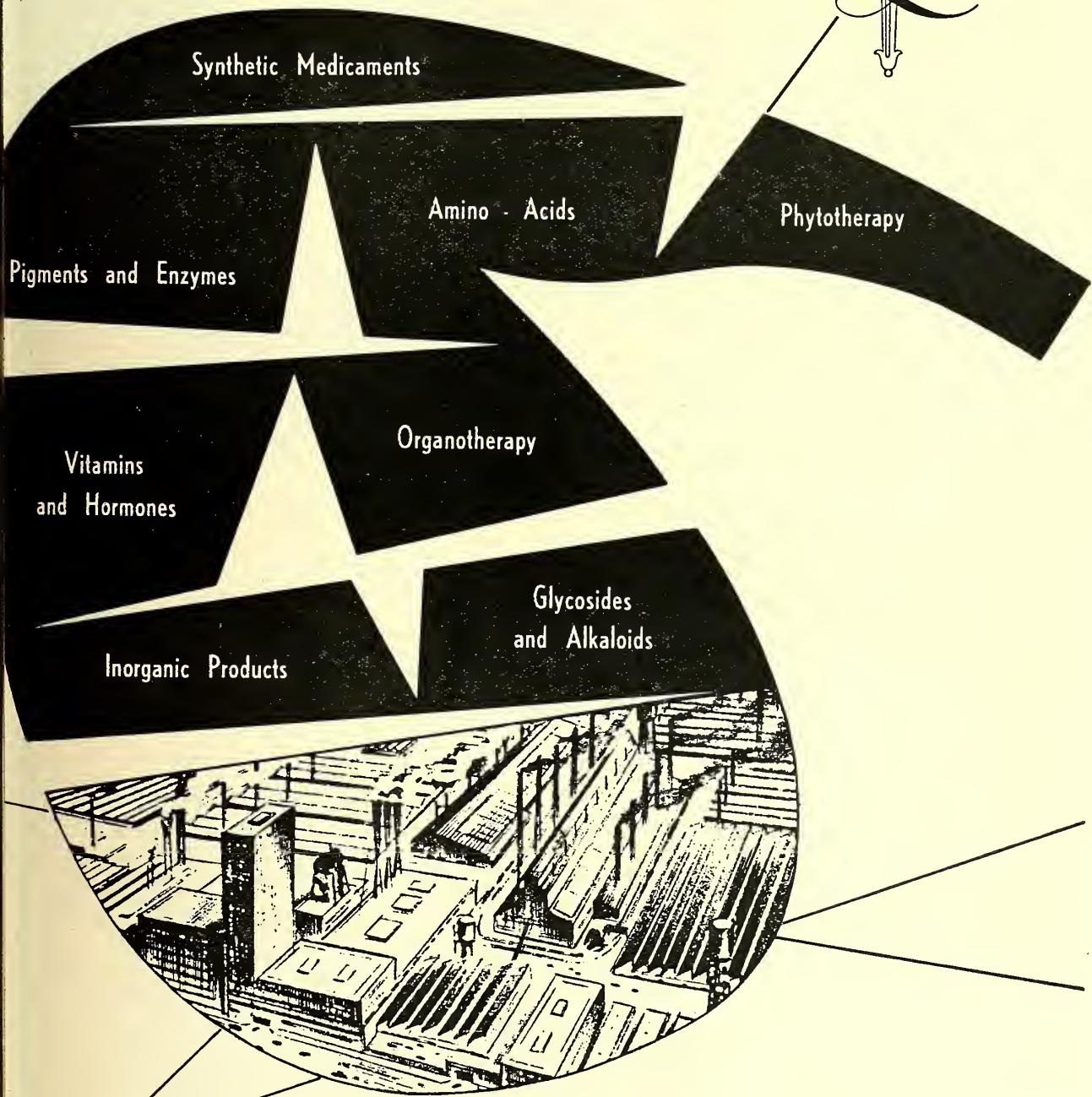
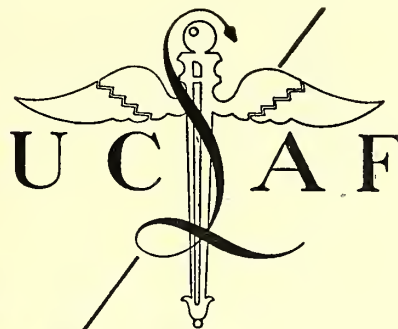
GLYCERIN & BLACKCURRANT



GLYCERIN, LEMON & HONEY

Sole Proprietors:

POTTER & CLARKE LTD • RIVER ROAD • BARKING • ESSEX • TEL: RIPPleway 041



ROUSSEL LABORATORIES

847, Harrow road - LONDON N.W. 10

Telephone : LADBROKE 3608

UCLA F - 6, rue Monsieur - Paris (7^e) - Tél. SEGuR 71-33

**C
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D
A
U**

MODERN AIDS TO HAIR BEAUTY

DAILY MAIL
IDEAL HOME EXHIBITION
The makers of **CHANDAU** preparations
request the pleasure of your company
on their

STAND No 188
GROUND FLOOR EMPIRE HALL
MARCH 5th - MARCH 30th

Over a million and a half people visited the Exhibition last year—check your stocks now to meet the increased demand.

T. L. BENTON & CO. LTD., 186 Seven Sisters Road, London, N.7.

SENSATION of the YEAR!



2/6

The ORIGINAL

**NYLON STREAK
AND CURL**

As shown on T.V. and advertised in the National Press and Women's Magazines.

Here it is—the latest in quick-selling glamour lines. "Curl-n-Swirl" is a finely spun nylon colour streak and curl closely resembling natural hair which when put in the hair adds beauty and glamour to every woman's hair style, and is so simple to use.



Retailing at 2/6 it gives you a good profit margin.

Display it and see how quickly it sells.

Obtainable in **ASH BLONDE, SMOKE BLUE, SHELL PINK, LAVENDER & WHITE** from Wholesalers or direct from:

★ "CURL-N-SWIRL," 51 Streatham Hill, London, S.W.2

Wholesale enquiries:

★ **BYROM REAGENTS LTD.**, 130A, Larkhall Lane, S.W.4

Export Enquiries to:

★ **GORDON & GOTCH Ltd.** (Export Division), 75/79 Farringdon Street, London, E.C.4

ORDER NOW

21/- per doz.

6 SAMPLES 10/6

POST FREE

Terms Cash
with Order

Quinine
Quinidine
Cinchonine
Cinchonidine
Totaquina

and all other Alkaloids of
Cinchona and their salts

Quinine
the natural antimalarial

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AMSTERDAM

N.V. NEDERLANDSCHE KININEFABRIEK
MAARSSEN

DISTRIBUTORS:

R. W. GREEFF & CO., LTD.

HEAD OFFICE

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MONarch 1066 (12 Lines) Wires: Greeff, Cent. London

Telex 2-2590

and at

THE ROYAL EXCHANGE, MANCHESTER
Blackfriars 9407-8 Wires: Greeff, Manchester

Skylon

THE ORIGINAL POLYTHENE BOAT SHAPED BABIES FEEDING BOTTLE

This new boat-shaped babies polythene feeding bottle has been specially developed to meet popular request. It is unbreakable, hygienic, tasteless, odourless and unaffected by foodstuffs. Openings at either end make for easy cleaning and its light weight makes it ideal for the small infant. All standard teats and valves will fit the necks.



PATA

Packed in individual cartons with full sterilizing instructions.



ACORN 5073/4

F I B R E N Y L E

L I M I T E D

157 DUKES ROAD · WESTERN AVENUE · LONDON · W 3

JACW

They always come back for more

Advertising, and word of mouth recommendation, bring the customers in—but it's the results that bring them back.

Dr. Page-Barker's Scurf and Dandruff Lotion and D.43 Shampoo have the reputation that ensures repeated sales—a reputation for unflinching reliability in keeping the scalp clean and free from dandruff. Make sure that you have a share in the prestige and profits that come from stocking these ever-popular lines.

A Page Barker showcard will catch the customer's eye and remind him of his need. Available on request.

THOS. CHRISTY & CO. LTD.,
North Lane, Aldershot,
Hants.

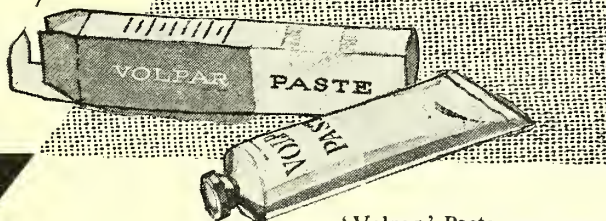


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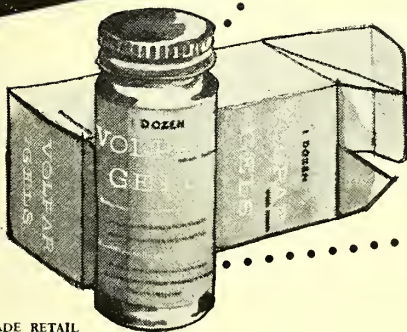
(continued overleaf)

An aesthetically acceptable contraceptive



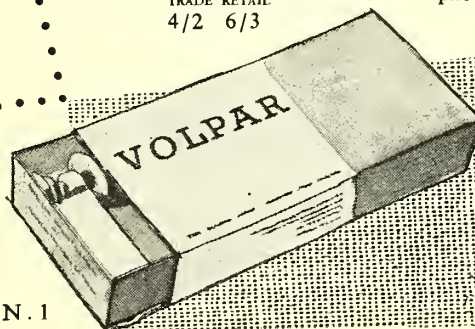
'Volpar' Paste TRADE RETAIL
Collapsible tube 1/10 2/9

'VOLPAR'
TRADE MARK
GELS AND PASTE



'Volpar' Gels TRADE RETAIL
Bottle of one dozen 1/10 2/9

'Volpar' Paste and Applicator combined
TRADE RETAIL
4/2 6/3 pack



THE BRITISH DRUG HOUSES LTD. LONDON N.1

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THE Advantages



“ of Disprin ”

The advantages of Disprin as an analgesic are:—

- 1 Disprin is soluble
- 2 Disprin is substantially neutral

Disprin is therefore quick-acting and far less likely than ordinary aspirin to upset the stomach.

Week after week these advantages are made known to millions of readers of the national daily papers, the national Sunday papers, *Woman*,

Woman's Own, *Woman's Weekly*, and *Woman's Sunday Mirror*.

Week after week more people ask for "Disprin" for the relief of headache, neuralgia, sciatica, colds, rheumatism and kindred ailments.

RETAIL PRICES

(inc. P.T.)

50-tablet bottle 3/3 26-tablet bottle 1/11½
8-tablet foil 9d.

TRADE PRICES

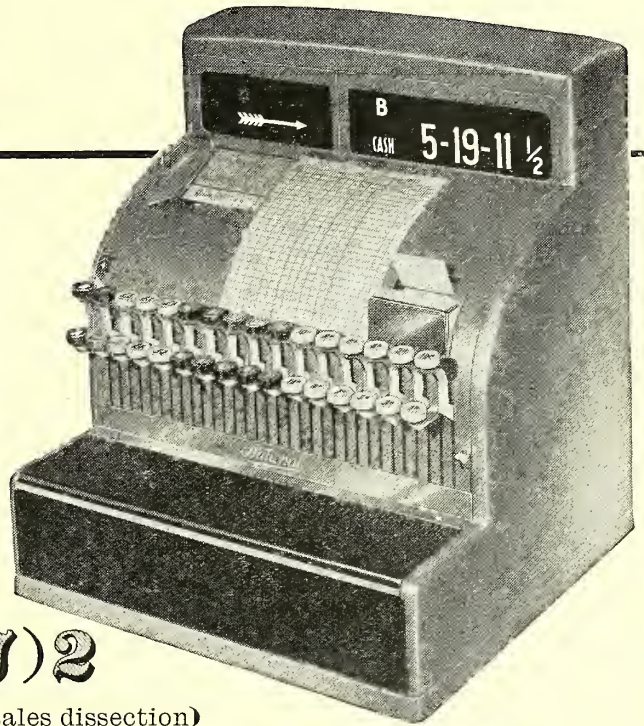
(exc. P.T.)

50-tablet bottle 23/- doz. 26-tablet bottle 13/10 doz.
8-tablet foil 5/2 doz.



SECURITY

'SECURITY FIRST' is the only safe and fair policy where cash is handled and accounts are kept. In the absence of a fully protective and informative system of Receipts and Payments Control, costly errors will always occur. Temptation threatens and doubt disarms authority. The vigilant National—all-observing, all-recording, all-remembering and all-revealing makes profits safe and systems sound.



- ▶ BOLD, white on black, wide-angle **indication**—reading left to right, front and rear.
- ▶ AUTOMATIC, **permanent record** of all transactions: Last 9 items always visible.
- ▶ AUTOMATICALLY PRINTED **customers purchase record**

Model no. 132(7)2

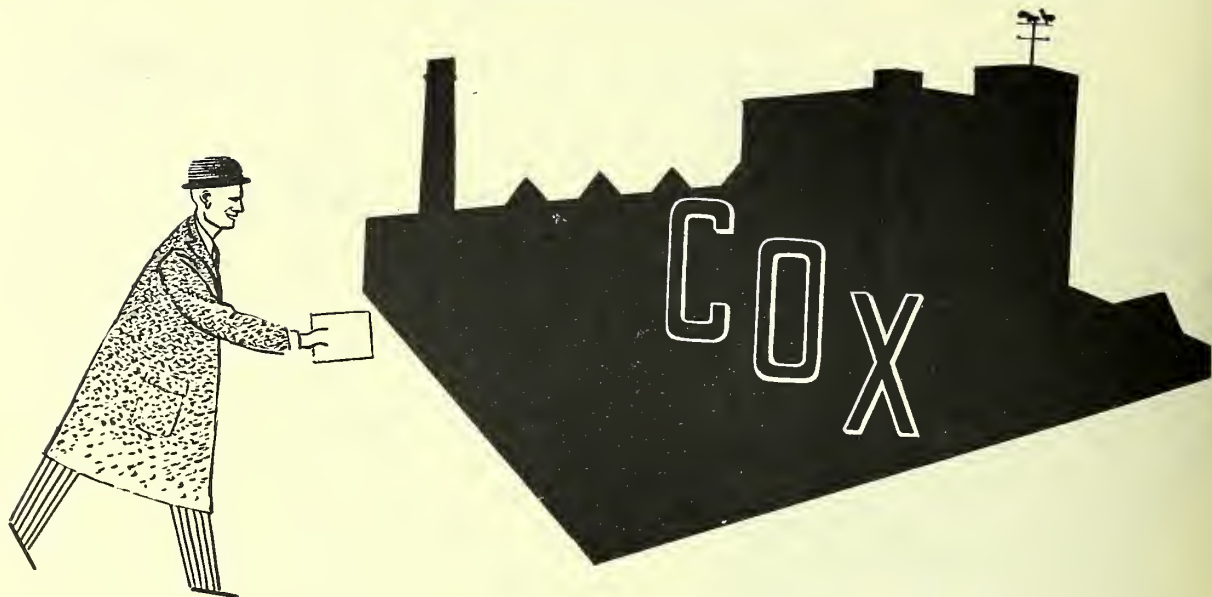
(Two-totals — printed — for sales dissection)

5 YEARS GUARANTEE ★ NATION-WIDE AFTER SALES SERVICE

TRUST ALL YOUR TAKINGS TO THE VIGILANT

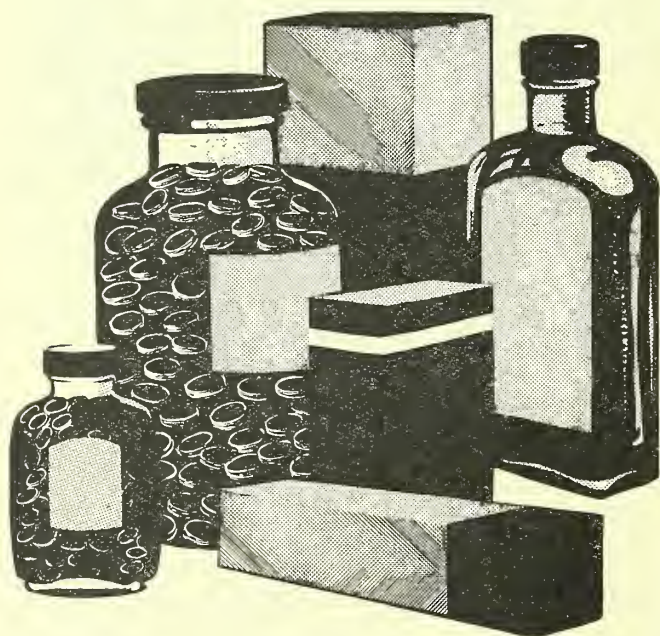


THE NATIONAL CASH REGISTER COMPANY LTD.
 THE NATIONAL CASH REGISTER COMPANY LTD. 206-216 Marylebone Road, London, N.W.1. PADDINGTON 7070



Own

PRIVATE FORMULAS



Do you know that the Cox Organisation deals with the whole manufacturing process from raw material to consumer package?

Here are facilities capable of handling orders of all descriptions and in any quantity—facilities which are themselves products of a hundred progressive years in the pharmaceutical industry.

If you have a formula you wish to place on the market or a preparation which deserves wider recognition do not hesitate to let us know your requirements.

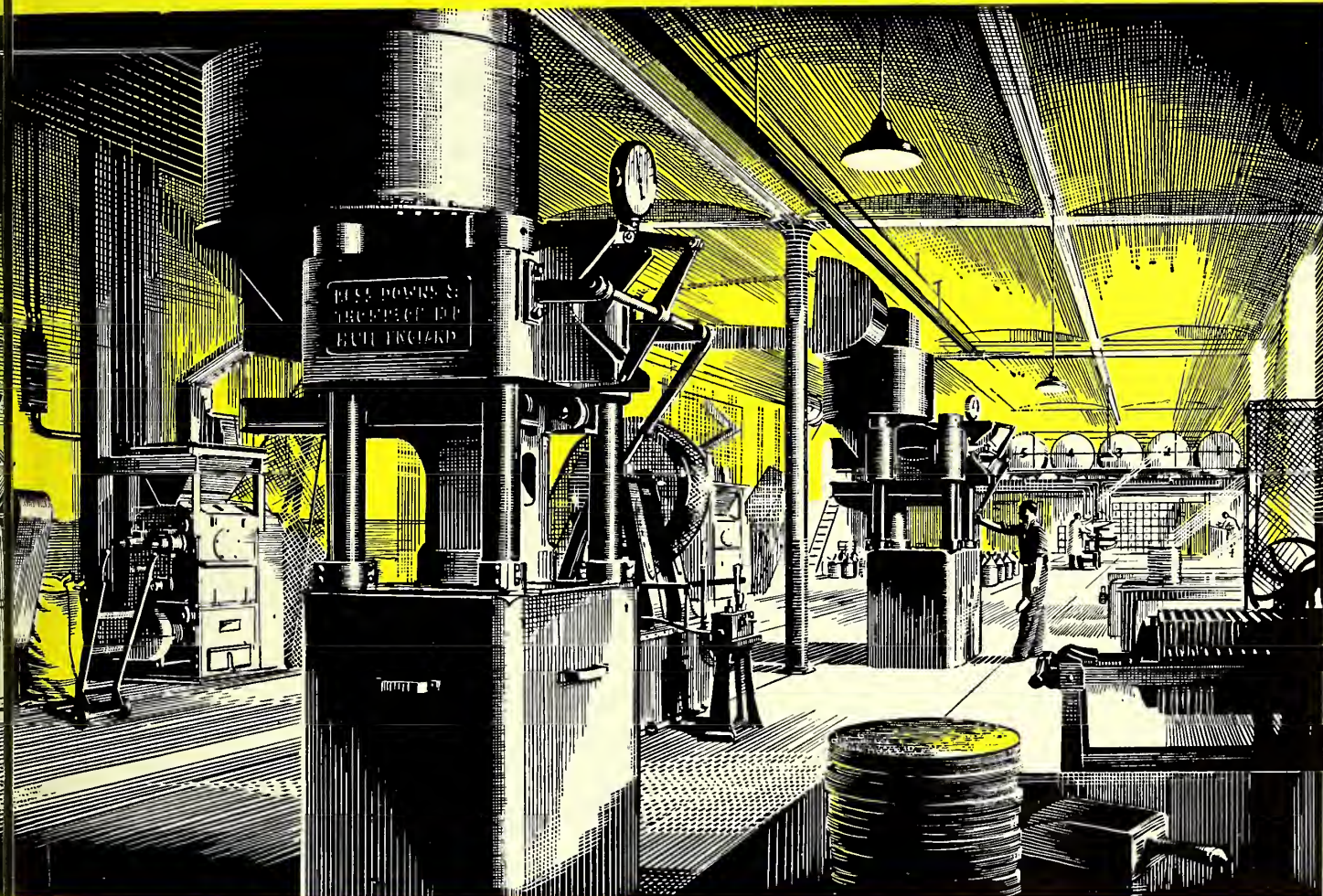
Enquiries are treated promptly and confidentially.

TABLETS
PILLS
CREAMS
PASTILLES
SUPPOSITORIES
EMULSIONS, ETC.

ARTHUR H. COX & CO. LTD.
BRIGHTON · ENGLAND

One of the world's foremost tablet makers

NATURAL COLD-PRESSED ALMOND OIL



Almond Oil Presses at Wharf Road

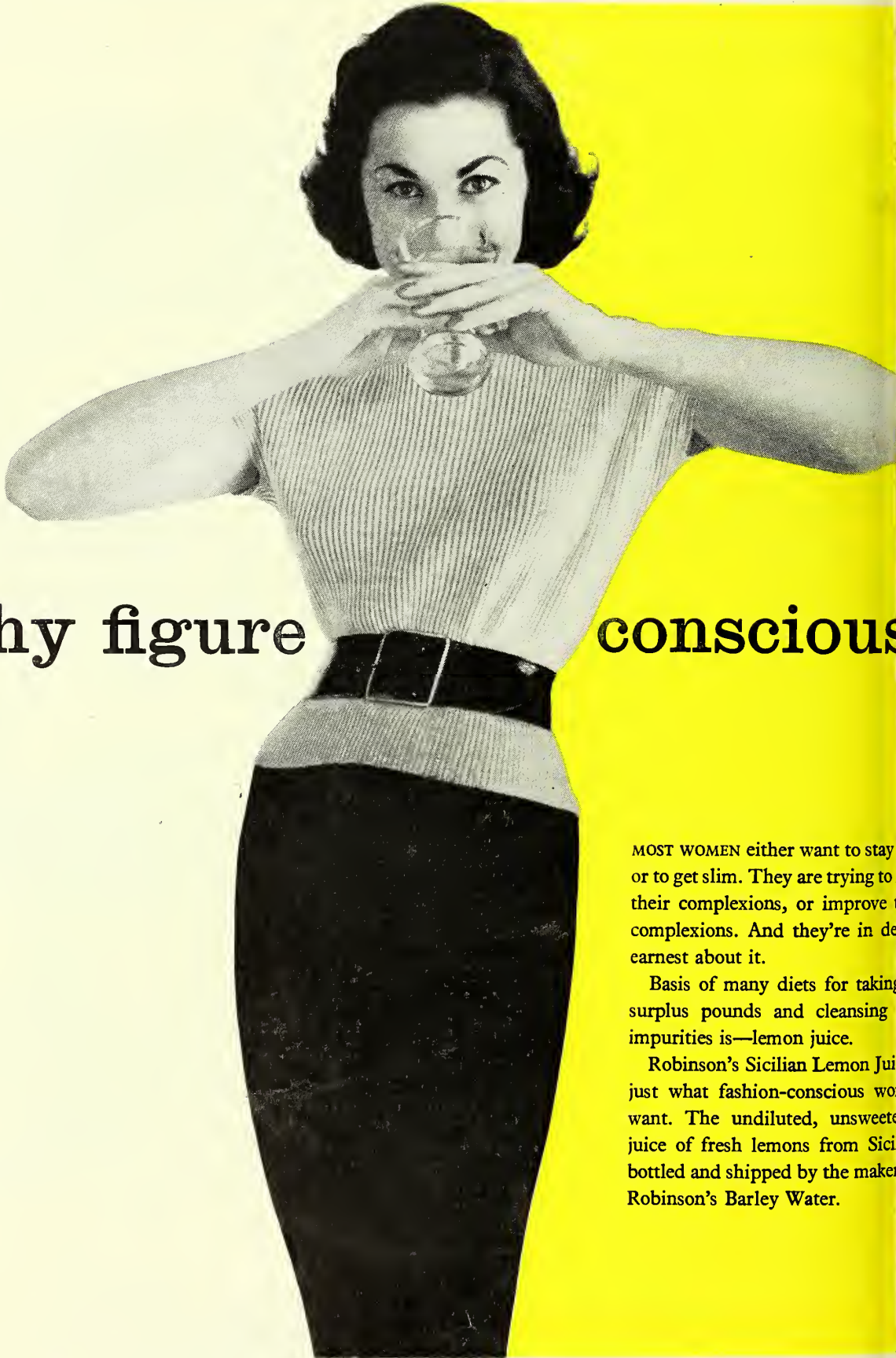
For stability and low acidity there's nothing to touch the natural expressed oils, prepared without chemical treatment, water treatment or heat treatment, in our Wharf Road Works.

This is one of our specialities. We can quote you for genuine Almond or, at a slightly lower rate, for Persic oil expressed from Peach and Apricot Kernels.

**NO CHEMICAL TREATMENT
NO WATER TREATMENT
NO HEAT TREATMENT**

*Unequalled
Quality*

StaffordAllenS



Why figure conscious

MOST WOMEN either want to stay or to get slim. They are trying to their complexions, or improve their complexions. And they're in earnest about it.

Basis of many diets for taking surplus pounds and cleansing impurities is—lemon juice.

Robinson's Sicilian Lemon Juice is just what fashion-conscious women want. The undiluted, unsweetened juice of fresh lemons from Sicily bottled and shipped by the maker. Robinson's Barley Water.



women will clamour for

Robinson's
SICILIAN
LEMON
JUICE

Shipped and bottled
 by the makers of
ROBINSON'S BARLEY WATER
 KEEN, ROBINSON & CO. LTD.
 CARROW WORKS,
 NORWICH

We'll take good care they know
 about Robinson's Lemon Juice.
 Our advertisements with a powerful
 fashion appeal will be launching this
 new health-giving drink in VOGUE,
 ELLE and other leading women's
 magazines.

So take care they see Robinson's
 Sicilian Lemon Juice in your shop.
 The retail price is 4/- a large bottle.
 Quantity rates are available, and you
 can include Sicilian Lemon Juice with
 Robinson's Barley Waters, Squashes
 and Orange Smash for terms.

To freshen up your sales

GENEROUS INTRODUCTORY OFFER

on the **NEW** quick seller

Keeps any confined space fresh as a daisy. Two perfumes :
LAVENDER and CARNATION. Handy cardboard container
for standing and with tag for hanging on hook or nail.
Retail at 1/3d. including container.

Extra Profit for YOU!
of

10/- Display Allowance
on 1 gross (4 cartons)

5/- Display Allowance
on 1/2 gross (2 cartons)

2/6 Display Allowance
on 3 doz. (1 carton)

Packed in attractive Display Carton each containing 3 doz. "ELSANAIR" Blocks (1 1/2 doz. LAVENDER, 1 1/2 doz. CARNATION) @ 15/- doz.

Less 33 1/3% DISCOUNT



ELSANAIR

Deodorant Blocks in expendable containers

PLEASE TEAR OFF

ORDER FORM

To Elsan Mfg. Co.

Please send me.....display containers
each containing 3 doz. "ELSANAIR"
@ 15/- doz. LESS 33 1/3%.

AND ALLOW ME

★ **10/-** DISPLAY BONUS on 1 gross

★ **5/-** DISPLAY BONUS on 1/2 gross

★ **2/6** DISPLAY BONUS on 1/3 gross

★ strike out that which does not apply.

Firm's Name.....

Address.....

Signature.....

Date.....



ELSAN MFG. CO. 51 Clapham Road, London, S.W.

Ahoy there!



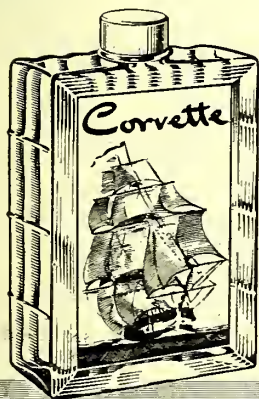
HOIST YOUR SALES

WITH Corvette

Corvette is all set to make 1957 a record year. In the National Press and in leading Women's Magazines, Corvette advertising will have more to say for itself—and more often—than ever before.

Bright and brand-new counter and window display material will help to clinch sales.

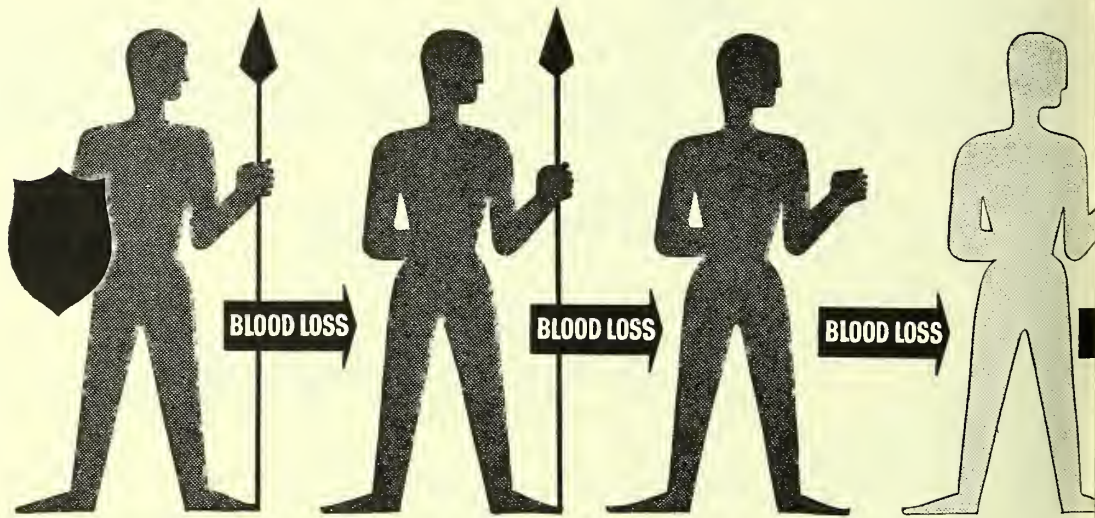
*Our advertising, your display,
your recommendation—all can
link together to make 1957
a record year for . . .*



Corvette

GOYA 161 NEW BOND STREET LONDON W.1

Ferrum et scutum Lanceaque (cum arte)



Haemoglobin normal
Body iron stores
normal

Haemoglobin normal
Body iron stores
falling

Haemoglobin normal
Body iron stores
exhausted

Haemoglobin de
Body iron store
still exhausted

Suggested further reading :

Blood, 1955, **10**, 567. *Bull. N.Y. Acad. Med.*, 1954, **30**, 81.

J. Amer. med. Ass., 1956, **162**, 197. *Ann. intern. Med.*, 1955, **42**, 458.

Ann. intern. Med., 1953, **38**, 199. *J. clin. Invest.*, 1952, **31**, 543.

Brit. Encycl. Med. Pract., Med. Progr., 1956, P.47.

Imferon

Iron-Dextran Complex

Trade Mark

BENGER LABORATORIES LTD., HOLMES CHAPEL, CHESHIRE

PIONEERS IN PARENTERAL THER.

MUCOSAL BLOCK

ORAL IRON

INTRAMUSCULAR IRON

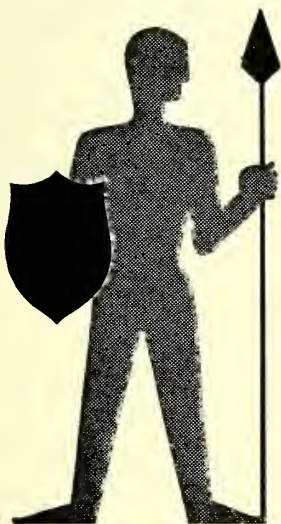


*Haemoglobin normal
Body iron stores
remain exhausted*

BLOOD LOSS



*Haemoglobin down again
Body iron stores still exhausted
—no iron reserves*



*Haemoglobin back to normal
Body iron stores back to
normal*

BLOOD LOSS



*Haemoglobin normal
Body iron stores falling—but
still more iron reserves*

*Look at this
dressing!*



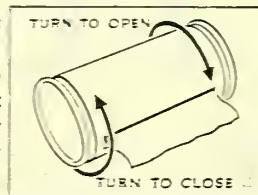
... It is **STERAID GAUZE** being drawn out of its patent container ready to be snipped off.

What a convenience this could be to your Doctor and other customers: they would readily buy their Dressings in this simple and effective device ... so very much superior to the ordinary packets.

STERAID DRESSINGS are made up in Gauze and Lint (Plain and Boric) in Display outers, each of twelve containers.

Enter a trial order through your Wholesaler. Your customers will appreciate the utility of this excellent product.

After use, one slight turn at the base will return the dressing to the container, enclosing it completely from any contamination, ready for further use ...



ROBERT BAILEY & SON, LTD.
SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 30677 Green. "UNDISPUTED" STOCKPORT

**THE
WORLD
FAMOUS**

'ROXY'

**WATERTIGHT
BATHING
CAP**



Sold in two sizes, **MEDIUM** and **LARGE**, and eight gay colours: **WHITE, BLACK, RED, ROYAL, YELLOW, DELPHINIUM, GREEN, PINK.** Roxy caps are distributed by:—

*Order
your
new
season's
supplies
NOW!*

**OLNEY AMSDEN
& SONS LIMITED**
LITTLE BRITAIN, LONDON E.C.4

TWO NEW MODELS JOIN THE **PHILISHAVE** RANGE!

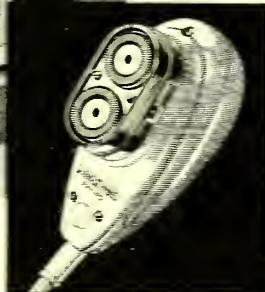
The new Standard 'Philishave'

It looks identical to the dual-volt model and has the same Rotary Action to give just as close and comfortable a shave — yet it costs only £6.17.6. This model works on one voltage range only — 200-250, AC/DC,

which means one can change the plug to any other type required. No B.C. adaptor is supplied with this model. One other important feature — the protecting cap is now made of clear plastic and need not be removed to display the rotary action shaving head.



For 200-250v., AC/DC mains.
Price **£6.17.6** (tax paid),
complete with case.



The new Battery 'Philishave'

This enables a man to shave literally anywhere in the world. Three 1½-volt flashlight batteries — costing just under 2 shillings — drive a 4½-volt electric motor for 200 shaving minutes. For most people, that means batteries need only be replaced once every six weeks or so! These batteries are contained in a neat unit that includes a most useful, unbreakable mirror.



Complete with attractive travelling pouch, the price of this new shaver is **£7.12.6** (tax paid).
(Batteries extra.)



PHILIPS PHILISHAVE

The dry shaver with the biggest world sale
Philips Electrical Limited - Century House
Shaftesbury Avenue - W.C.2

News of these two extra models will be featured in 'Philishave' publicity from March 1st. Naturally enough, the selection of models now available will widen the appeal of the 'Philishave' even further.



Looking for a good camera?

Meet Dog House Dan the two-camera man.

G.B. KERSHAW 'TIO'

IT LOOKS GOOD
IT FEELS GOOD
TAKES VERY GOOD PICTURES

RANK PRECISION INDUSTRIES LTD

Profit from this POWERFUL ADVERTISING

...in the "Radio Times" Over 19,000,000 potential customers!
That's the readership of the "Radio Times".
That's the measure of our advertising support for you this coming spring and summer. G.B. Kershaw camera advertising will be appearing week after week, guiding "Radio Times" readers to your shop.

...in the "Amateur Photographer" The photographic press too, will carry advertising, highlighting the 630/450 models. Exceptional versatility, from such features as high resolution lenses and unique balanced pressure baseboard shutter release, make these cameras the ideal alternative to a 35mm for every serious amateur.

Give the G.B. Kershaw range of quality cameras a prominent display, together with the price cards which your customers will be looking for. At prices from £4.19.9 these cameras will appeal to a vast market.

Make sure your stocks of G.B. Kershaw cameras are adequate, to meet increased demand. For further supplies, write or 'phone



RANK PRECISION INDUSTRIES LIMITED

CINE & OPTICAL DIVISION · DEPT. CD/257 · 37/41 MORTIMER STREET · LONDON W.1. · MUSEUM 5432

SELL

Ryders' SEEDS THIS YEAR!

These seeds, in their colourful pictorial packets, have been pleasing our customers for over seventy years —they will please yours this year! To show our confidence in their selling power, we supply them on a 'sale or return' basis.

Write for Agency Terms to :

RYDER & SON (1920) LTD.
ST. ALBANS · HERTS

KALIUM BRAND

Garlic Tablets for dogs



Garlic Tablets have for some considerable time been used for the treatment of both Human and Animal Diseases and are renowned for their value in the prevention and general treatment of Bacterial Ailments.

They have proved invaluable for the prevention of all types of Worms, Distemper, Hard Pad and most Bowel and Chest complaints.

Garlic Oil is a powerful antiseptic, disinfectant, diaphoretic, diuretic, expectorant and vermifuge, and as a first class Blood Purifier may be used with even the youngest Puppies. Its action in clearing the Blood means that the Dog is kept in the prime of condition and is therefore less likely to pick up infection.

40 Tablets ... 2/6d. per box
100 Tablets ... 5/6d. per box

Less 3 1/2% trade discount.

See these other Kalium Products

FOR CAGE BIRDS

VIGAMOL : Fertility stimulant and tonic. Tocopherol and cod-liver oil.

SCALEX : For Scaly-face on budgerigars. A safe cure.

ENTREX : For enteritis and intestinal ailments in cage birds.

SPRITE : An effective specific (and preventive) for fever, bronchitis, asthma in birds.

KALIUM PRODUCTS

38 HILLS YARD, REDDITCH, WORCS.

Phone: 984/1033

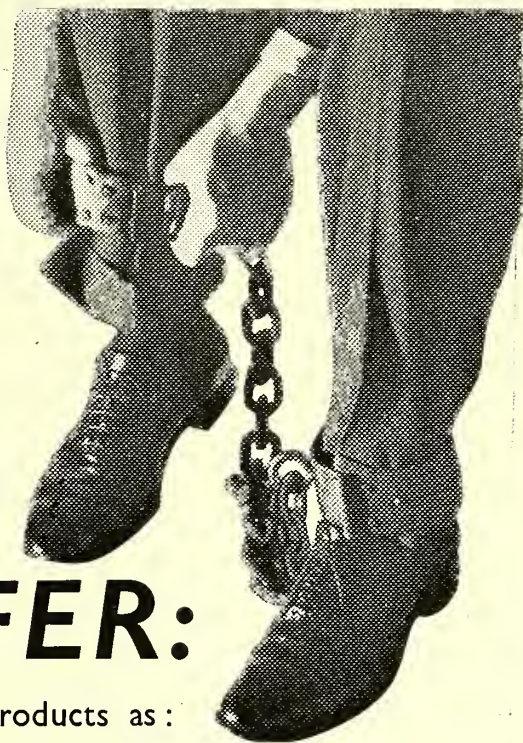
NEW External Treatment for RHEUMATISM

AND ASSOCIATED TROUBLES

'Embadren'

13 to the Dozen

BONUS OFFER:



which may include such other advertised products as:

Cooltan, Lanolive, Chloro-Yeast, etc.

You'll be asked for it any time now—'Embadren,' the NEW Anti-Rheumatic Cream! It combines Adrenaline, Capsicin, Nicotinic Acid, Salicylic Acid, para-Aminobenzoic Acid and Glycol Salicylate, in a pleasant penetrant Cream.

★ 'Embadren' advertising, about to start, is strong and striking—be ready to see the demand begin—and steadily increase. Public Price 4s. 6d. a package; Trade Price 32s. 3d. a dozen.

★ On Bonus (now available, but closing March 30) 'Embadren' will pay you handsomely—the more so if at the same time, you ALSO order any Kathleen Court/Sun Island Chemicals lines—such as Cooltan, Coppatan, Swifatan, Lanolive Cream and Lotion, Lan-

Win Bigger Profits Now & Safeguard Summer Ones!

olive Brushless Shave and Chloro-Yeast. On all these you can have 13 to the Dozen: with 'Embadren' orders. Order at once, please, through your Wholesaler. Direct Orders can be accepted, and 10% Discount allowed as well as Bonus, provided Cheque is enclosed with Order. Discount is off Goods only; Purchase Tax net at 9s. 5½d. a dozen.

Distributors: Sun Island Chemicals Ltd. Proprietors:—
KATHLEEN COURT (ENGLAND) LTD.
EFFRA ROAD · LONDON · S.W. 2

Don't disappoint customers from the Early Advertising of



'Embadren'

Remember: act NOW and INCLUDE **COOLTAN** etc. for Your BONUS!

MOTHAKS

Great New BONUS OFFER

YOU
can't beat
this profit.

Order 1 gross or over of MOTHAKS NOW, for delivery before 1st April, and benefit by this great BONUS OFFER.

5/- SPECIAL
DISCOUNT
ON EVERY GROSS

Advertising Campaign

Sell
MOTHAKS
from your
counter
NOW



Plus
THE NEW SUCCESSES . . .

MOTHAK FLY SPRAY



A tremendous success last season. The name MOTHAK and unique lavender perfume assure even greater success this season. Economical in use, 5/6d.

MOTHAK POWDER



Protects carpets and upholstery. Lavender perfumed; customers like it. Handy puffer pack sells at 1/4d.

2¹⁰/₂ EXTRA DISCOUNT on all combined orders for MOTHAKS, MOTHAK POWDER, MOTHAK FLY SPRAY and PARADOR AIR FRESHENER.

THOMPSON & CAPPER LTD.
SPEKE · LIVERPOOL 19

MOTHAKS
Consumer Advertising
has started
SPECIAL
SPRING-CLEANING
ADVERTISEMENTS
are now appearing in
WOMEN'S
MAGAZINES

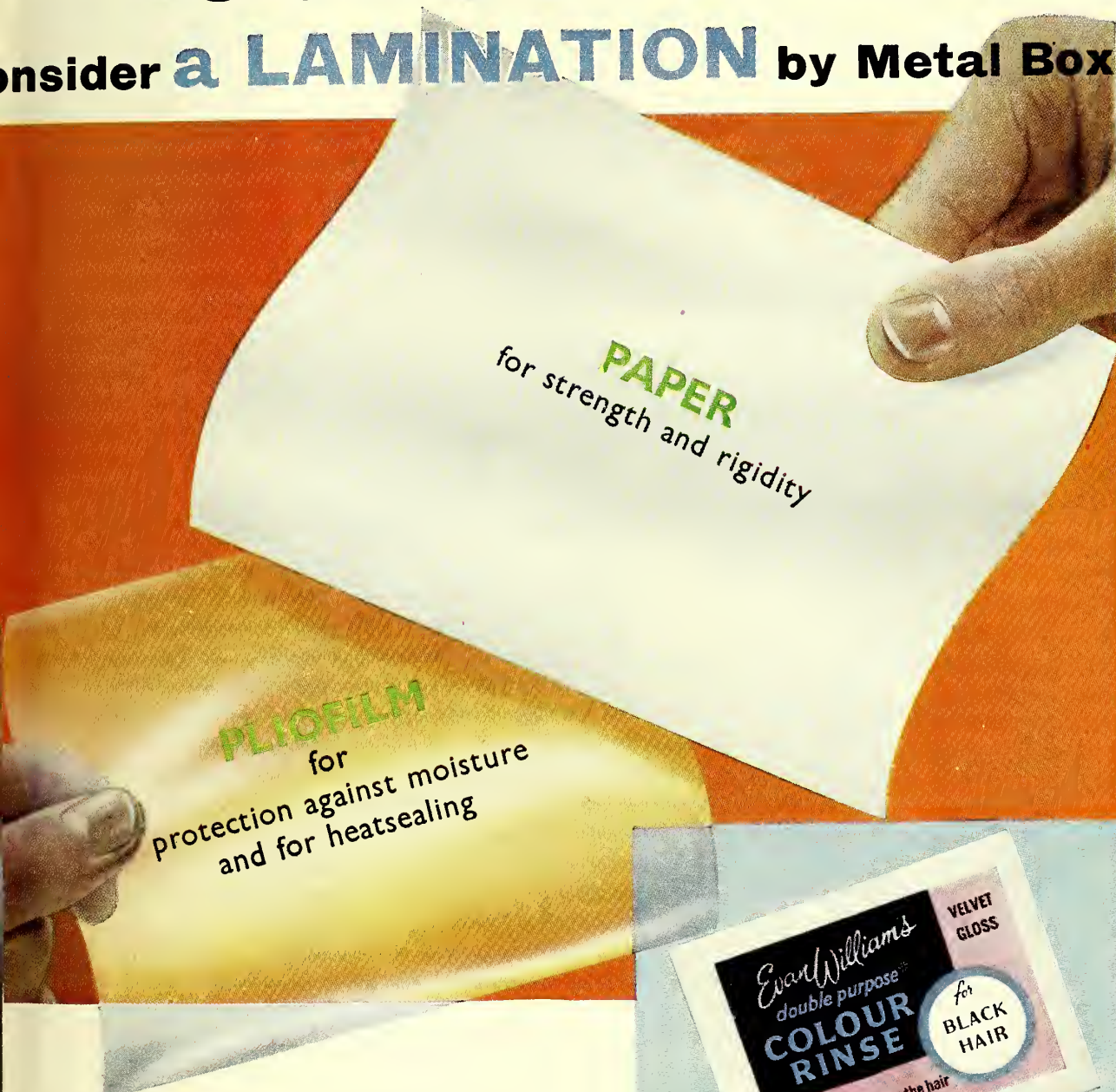
Many many more different advertisements right through the whole season in National Weekly, Daily, Sunday and Leading Provincial Newspapers.

AND
FOR THE FIRST TIME

A SPECIAL
TV
SERIES ON ALL
STATIONS

If no single packaging material will do...

Consider a **LAMINATION** by Metal Box



a **LAMINATION** is made by bonding together with adhesive two or more layers of different materials. The moisture-proofness of one may be joined with the strength of another and the appearance of a third. Variations can be made in relative thickness, and the possibilities are both numerous and exciting.

The knowledge of laminations possessed by Metal Box makes it worth your while to consult them first whenever you are considering whether a lamination may be the kind of packaging material best suited to your product. Write or phone *today* to



EVAN WILLIAMS
use
DUOLAM B
for their successful colour rinse pack

DUOLAM B is a combination of paper and Plio-film—moisture-proof, greaseproof, liquid-proof, tough, heat sealable, capable of being printed in multicolour for high standard presentation.

A LAMINATION may enable you to :

- SAVE space
- SAVE weight
- SAVE breakages
- SAVE waste
- Open new markets
- Try new sampling schemes
- Achieve new low-cost packaging

THE METAL BOX COMPANY LIMITED
Plastics Group
THE LANGHAM · PORTLAND PLACE · LONDON W.1

These famous products
are being advertised in the
DAILY MIRROR week
beginning February 25th



* 14,749,000 readers of the Daily Mirror will see these advertisements. That's over one in three of all shoppers in your area. Tell your other suppliers that the support you want is brand advertising in the Daily Mirror.

* I.P.A. Readership Survey.

For extra business extra profits...

display these brands on your counters, in your windows.
Be sure that customers see that you are their nearest stockist.

biggest daily sale on earth Daily Mirror
moves goods nationally, regionally, LOCALLY



Recognition of an Old Remedy

It was in 1748 that Baron* first recognised the chemical nature of boric acid. It had already been prepared by Homberg from borax and was in considerable use as a traditional remedy known as 'sal sedativum'.

Since that time many bizarre uses have been suggested as treatment for cancer and even, on a lighter plane, as a cure for freckles! But it was soon recognised as a safe and useful constituent in many applications. It has been found particularly valuable in talc where it neutralizes any lime present, discourages the growth of certain bacteria and has a fungistatic effect. It has been recognised as one of the safest bacteria-inhibiting agents that can be applied to the skin, and its healing and soothing properties are utilised in scores of products such as dressings, lotions, creams and similar preparations.

Properly applied, boric acid will continue to maintain the high place it has held in therapeutics and cosmetic manufacture for many years.



*Baron, T., *Mém. Math. Phys.* 1748, 1, 295, 447.

20 MULE TEAM

BORIC ACID

AND BORAX

BORAX CONSOLIDATED, LIMITED

BORAX HOUSE · CARLISLE PLACE · LONDON · S.W.1 · VICTORIA 9070



TGA. BX74

HUGE NEW ADVERTISING CAMPAIGN FOR SAVLON LIQUID ANTISEPTIC

“From now on Savlon is the only antiseptic good enough for you”

“FROM NOW ON Savlon is the only antiseptic good enough for you” is the message of a big new advertising campaign for Savlon Liquid Antiseptic. For the public it is virtually a ‘launching’ campaign, and will be treated as such, with big spaces in National Dailies and magazines.

Savlon Liquid Antiseptic has been enjoying steady and rising sales with modest advertising support. It has sold on its own merits, as a striking advance in modern antiseptics. From now on nearly everybody will know just what a striking advance it really is.

Savlon Liquid Antiseptic is going to be advertised simply as ‘Savlon’. Stock up with Savlon now and be ready to meet the demand resulting from our national advertising in the big circulation daily papers, in the News of the World, Sunday Express and Sunday Times, in the Radio Times and in women’s magazines. And you will be getting new, eye-catching display material.

Savlon

LIQUID ANTISEPTIC

Retail price 2/9d. (incl. P. Tax).



IMPERIAL CHEMICAL INDUSTRIES LIMITED PHARMACEUTICALS DIVISION WILMSLOW CHESHIRE



GALENICALS

for WINTER DISPENSING



Manufactured under strict supervision from finest quality ingredients.

RICHARD DANIEL & SON LTD.
MANUFACTURING CHEMISTS

MANSFIELD ROAD **DERBY**. TEL.: 40671 (8 lines)
And at GROSVENOR ST., ASHTON-u-LYNE. Tel.: 2816 (3 lines)

OUTSTANDING

VALUE • APPEAL • PROFIT



An outstanding A.P.F. line—more than a toy, a novelty with real interest and educative value. At this price, a sure winner. Neat and compact and strongly made in rich polystyrene plastic. Individually boxed for easy handling. Stock it, display it and—watch the sales roll in.

3-DIMENSIONAL VIEWER

Only **2/6** retail

follow up sales with the . . .

VISTASCREEN 3-D VIEWS

Almost 100 sets of ten pictures, each set separately boxed. Beauty spots . . . Historic houses . . . Glamour models . . . Animals for the children. They're natural, inevitable sales to follow the sale of a viewer. At only 2/6 a set they'll be one of your 'best-sellers' ever!


VISTASCREEN

per **2/6** set



THE VISTASCREEN CO. LTD., 16 Soho Sq., London, W.1
Phone COVent Garden 3333 (A Member of the Capital Group of Companies)

**BULK
PRODUCTION**



Barbiturates

Geigy Barbiturates are produced uniformly to the highest possible state of purity, thus ensuring constant uniformity and accuracy of pharmacological action. GEIGY Barbiturates are used with confidence and therapeutic efficacy throughout the world.

Phenobarbitone B.P.
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Butobarbitone B.P.C.
Amylobarbitone Sodium B.P.C.
Cyclobarbitone Calcium
Methylphenobarbitone B.P.

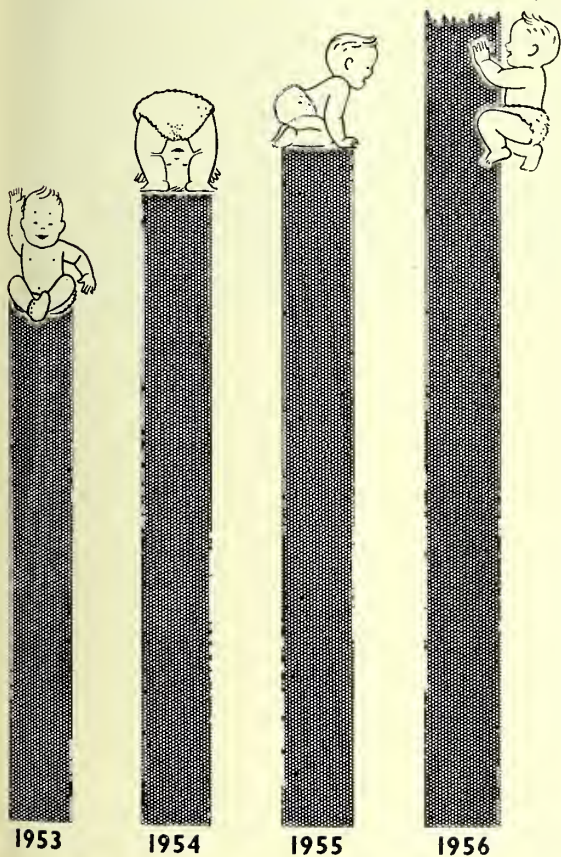
Phenobarbitone Sodium B.P.
Barbitone Sodium B.P.
Amylobarbitone B.P.C.
Cyclobarbitone B.P.C.
Hexobarbitone B.P.
Quinalbarbitone Sodium B.P.

GEIGY PHARMACEUTICAL COMPANY LTD

MANCHESTER

Strained Foods

ARE BIG BUSINESS—
and sales are growing fast!



14 women's magazines, with a high young-mother readership, regularly carry advertisements for Heinz Strained Foods. Direct mailing reaches one mother in every three.

Thanks to this year-round promotion, Heinz Strained Foods business gets bigger every year. But there's still a huge undeveloped potential! When British babies eat as much Strained Foods as Canadian babies, business will be 4 times as big!

See that you get your share of this growing market. Your Heinz representative will be pleased to supply you with attractive show material. Or write direct.

H. J. HEINZ COMPANY LTD.,
HARLESDEN, LONDON N.W.10



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 167

February 23, 1957

No. 4018

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PUBLISHED BY
MORGAN BROTHERS (PUBLISHERS), LTD.,
at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

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which includes The Chemist and Druggist Diary and Year Book, £2. Single copies one shilling each.

VACCINATION—

best defence against louping-ill

There is no known specific curative treatment for louping-ill, but the disease can be effectively prevented by vaccination. 'Wellcome' Improved Louping-Ill Vaccine, as its name implies, is an advance on other vaccines; it contains few tissue particles and is therefore easily injected.

The dose for sheep is only 2 c.c., for cattle 10 c.c.

This is the time for spring inoculations. Order stocks now to meet requests for material. Issued in containers of 50 c.c. (25 sheep doses or 5 cattle doses).

'WELLCOME' BRAND IMPROVED LOUPING-ILL VACCINE

CONTAINERS OF 50 C.C.

Prepared at The Wellcome Research Laboratories, Beckenham, England

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BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) **LONDON**

The CHEMIST AND DRUGGIST

Volume 167

FEBRUARY 23, 1957

No. 4018

"King Pin" of the System

ADVERTISING AND PRIVATE ENTERPRISE

THAT the pharmaceutical industry deserved a higher place in public esteem was claimed by Mr. John Rodgers, M.P., guest speaker at a luncheon of the Proprietary Association of Great Britain on February 14.

Yet when advertising was the scapegoat in the House of Commons or elsewhere the complaints always seemed to centre around the industry. The industry, said the speaker, had failed in its public-relations job. The weightiest argument in favour of advertising was its indirect effect on the industrial structure. It was the "king pin" of the private enterprise system. Its great contribution to western civilisation was to stimulate demand, leading to a higher economy. Only by the "free winds" of competition did the consumer get protection, but "oligopoly" (the concentration of production among a few large firms) was not to be derided. It was building a society with the technical advantages of large-scale manufacture and efficient production. If Britain were to maintain her place among her competitors, said Mr. Rodgers, her real brains must go on distribution, marketing and advertising.

Shilling Levy Problem

WHEN ITEM COSTS LESS THAN LEVY

THE right of a patient to pay only the value of a prescription item which is worth less than a shilling was discussed at a meeting of Blackburn Executive Council on February 12. The question was raised by Alderman J. Whitehead (chairman of the local Health Committee) when the Council was considering a suggestion by Mrs. Barbara Castle (M.P. for Blackburn) that its earlier expression of disapproval of the Government's intention to raise the prescription charge should be followed up by sending a copy of the resolution to the Minister of Health asking for his comments. If that were done, wrote Mrs. Castle, she would be able to ask a question in the House of Commons. The Council decided to adopt Mrs. Castle's suggestion—but not before it had debated Alderman Whitehead's point: What would be the position if a doctor put on a prescription an item not worth one shilling? Could the chemist delete the item and allow the patient to pay over the counter? "One of the items might be a roll of bandage," he said. "I would rather pay the chemist the actual value of the article." Mr. L. Mossop, M.P.S., said that a chemist could hardly be expected to enter into a controversy with a patient over the cost of items. While it might

be possible to say that a bandage was not worth a shilling they could not argue about the cost of a mixture prescribed by a doctor. DR. D. O'DRISCOLL said a chemist might be liable to disciplinary action if he deleted an item. THE CLERK (Mr. E. Stevenson) said that no instruction had been received from the Ministry of Health on the point. THE CHAIRMAN (Mr. R. Arkwright) said it was a difficult problem and it was agreed that a small committee should be set up to investigate such aspects of prescribing and dispensing.

Key Industry Duty

EXEMPTION PERIOD EXTENDED

AN Order published as S.I. 1957, No. 195, continues until August 18 the exemption from Key Industry Duty of all the articles exempted from that duty by previous Orders which expired on February 18 with the following additions and deletions:—

Additions

n-Butyl alcohol
Di-*n*-butyltin maleate

Deletions

Tubing of neutral glass, of a kind hitherto exempt.
p-Acetamidophenyl salicylate
Cobalt arsenate
4:4-Diaminodiphenylmethane, of a purity not less than 97 per cent.
N-monoEthylaniline.
Ethylene glycol monobutyl ether
Maleic anhydride
DL-Malic acid
Phenoxymethylpenicillin
Piperazine

New Salary Scales

HOSPITAL PHARMACY AGREEMENTS

THE revised rates of pay for hospital pharmacists (see *C. & D.*, December 8, 1956, p. 617) have been incorporated into agreements published by the Pharmaceutical Whitley Council Committee C (P.H. Circulars Nos. 21 and 22). The new rates are effective from November 1, 1956. The Professional and Technical Council B has published revised rates for assistants in dispensing (P.T.B. Circular 64) which are effective from January 1 (or the first full pay period following December 12, 1956, if that is different). The new rates are set out on p. 208).

Dangerous Drugs

AN AUTHORITY AGAIN WITHDRAWN

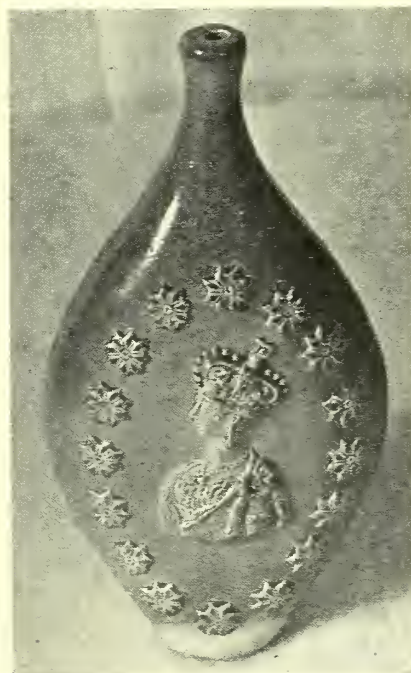
THE Home Secretary has again withdrawn from Robert Archibald Herschell Morison, M.B., Ch.B., his authority to possess, supply or to give prescriptions for Dangerous Drugs. The authority was previously withdrawn from Dr. Morison in March 1948, when his address was 8 Walker Street, Edinburgh, 3, but was restored in April 1949.

N.H.S. Costs

CIVIL ESTIMATES 1957-58

THE Vote on Accounts for 1957-58 published on February 20 shows that the National Health Service in England and Wales is estimated to cost £490,607,365, an increase of £20 millions. In Scotland the cost will be £59,528,380, an increase of £1,372,225.

A LOCAL "BYGONE"



The child's stoneware feeding-bottle illustrated, which is decorated with the head of Queen Victoria, shows her apparently "not at all amused." It was probably made at the time of her coronation, and is of a rare type, though stoneware bottles and flasks were common articles of manufacture in the early nineteenth century. In the centre of the back of the bottle is a hole of about 1-in. diameter, which may be covered to control the rate of flow. The bottle has some resemblance to the pottery and glass examples illustrated in the *C. & D. Annual Special Issue*, 1956, p. 614.

Chemists Federation

MONTHLY MEETING OF COUNCIL

A MEETING of the Chemists Federation council was held on February 7, the president (Mr. G. E. Mann) in the chair. Meetings of committees were held on the previous day. The following companies have been re-elected to represent C.F. manufacturers on the council for a period of two years ending January 31, 1959:—Allen & Hanburys, Ltd.; Evans Medical Supplies, Ltd.; Meggeson & Co., Ltd.; Parke, Davis & Co., Ltd. Ayrtton, Saunders & Co., Ltd., and May, Roberts & Co., Ltd., were re-elected wholesalers' representatives on the council for two years ending January 31, 1959. Messrs. W. T. Rees, P. D. J. Spaanderman and S. J. Stearn have been reappointed by the National Pharmaceutical Union Executive as retailers' representatives for the two years ending January 31, 1959. The following officers of the Federation were elected for the year ending January 31, 1958:—*President*, Mr. W. T. Rees; *Vice-president*, Mr. F. E. Mellor; *Treasurer*, Mr. K. G. Patten. The following applications for manufacturer membership were approved:—*Duncan, Flockhart & Co., Ltd.*, Caffedrin, Domogen, Haemamol, Pectex, Pollergen, Prosparol, syrup pholcodine, Xylocaine gel, Decilderm ointment, Decilderm dusting powder, Haemocones, phenyl indane dione, Pollodom, Somnased, Xylocaine ointment, Xylodase; *T. & H. Smith, Ltd.* Products: Colloidal iron syrup, elixir Methadon, Glycoedine, Tab-Sed, Glyferro, Glyscara, Mintosil. The following additions to the C.F. list were approved:—*Merck Sharp & Dohme, Ltd.*, Codel Cortone, Delta Cortone, Hydetracin. Reports were received of the formation of the following C.F. action committees:—Birmingham (secretary, Mr. A. H. Moseley); Bridgend (Mr. John Richards); Derby (Mr. L. W. Howard); Nottingham (Mr. W. O. Ayers); Huddersfield (Mr. Frank Norton). Reports were received of the following meetings:—At Brighton on January 15, addressed by the secretary; Keighley, on January 31 (Mr. A. Aldington); Bridgend, on January 31 (the assistant secretary). Arrangements were made for the following meetings to be addressed by the assistant secretary:—At Cardiff on February 12; Newport, on February 13; Birmingham, on February 14. One representative has visited pharmacists in Bristol and the other has completed his calls on all pharmacists in Northumberland.

SCOTTISH NEWS

Hotel into Pharmacy?

MULTIPLE CHEMISTS' ACQUISITION

THE lease of the Adelphi Hotel, Glasgow, is not being renewed by the owners of the property, Boots Pure Drug Co., Ltd., one of whose branches in Glasgow is on the corner of Argyle Street and Union Street, adjoining the hotel. The company may extend their shop and use the accommodation on the upper six floors of the hotel as office premises, but plans have not yet been finalised.

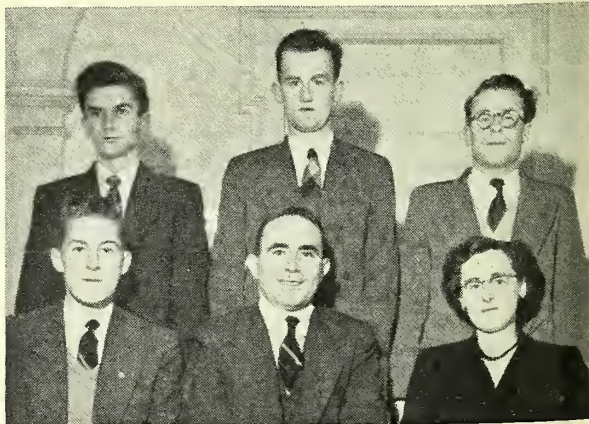
IRISH NEWS

Associates' Section

FINANCIAL BENEFIT FOR NEW MEMBERS

NEW members of the Associates' Section of the Ulster Chemists' Association now receive full membership benefits on payment of half the normal yearly subscription. The decision to grant that benefit was taken at the committee's monthly meeting in Belfast on February 11, Mrs. T. O'Rourke in the chair. It was agreed to make slight amendments to the rule book and to have more copies printed. It was agreed that Messrs. G. E. McIlhagger and J. E. Kerr should represent the Section at a meeting in connection with appeals machinery. The Society of Pharmaceutical Students asked for a grant towards the Easter students' tour to London, and it was agreed that grants should be made to all paid-up associates on making individual application to the office. The recruitment drive subcommittee reported that letters had been sent to all non-associate pharmaceutical employees in Northern Ireland, and a number of applications had been received. Further letters to pharmacists and apprentices were being sent out in March. It was agreed that new associates could receive full membership benefits as already stated, and that associates who had joined recently as a result of the recruiting letter, and who had paid the full subscription, should have half the amount credited towards next year. Lapsed members would also be readmitted on half subscription at the discretion of the committee. THE SECRETARY reported that the executive committee of the Ulster Chemists' Association had sent to all its members a letter of support for the recruitment drive, and asking them to encourage employees to join. The following applications for associateship were approved: *Pharmaceutical Chemist*, Messrs. J. G. Finlay, R. K. Gordon, T. R. Irwin, S. Miller, T. Montagu, J. J. McVeigh, H. Weir; *Unqualified Assistants*, Messrs. J. P. Burns, R. D. N. Clarke, J. J. Molloy, F. J. Sharkey, and Misses R. Hamilton and I. Maguire; *Apprentices*, Messrs. R. Bebe, D. Corbett, K. Durkin, E. B. Falls, J. M. Lenny, W. D. Milligan, H. J. McCavana, J. J. McKeagney, D. McMeekin, J. McAuley, Misses M. H. Wilson, M. S. Kerr and J. Eames.

STUDENTS' ORGANISING COMMITTEE: Local committee which is making the arrangements for the fifth conference of the International Pharmaceutical Students' Conference. The conference is being held in Dublin in September. Seated: Mr. Gerard Brady (treasurer); Mr. Bernard Fedders, Ph.C. (chairman), Miss Delta O'Reilly. Standing: Messrs. Tadhg MacGiolla Riogh, John McCormick, and Denis McLaughlin.



Health Services Board

PHARMACY-SURGERY SITING CASES

THE Northern Ireland General Health Services Board meeting recently, again decided to go into committee to consider the application of a chemist to open a branch shop in the same building as a doctor's surgery. When the matter was discussed in committee at a previous meeting (see C. & D., January 26, p. 83) it was agreed that the case should be referred to the Medical Advisory and the Pharmaceutical Advisory Committees for further consideration. Since then both Committees have recommended that the Board should adhere to its previous decision to refuse permission. The Board was told that the Pharmaceutical Advisory Committee had considered a number of reports on buildings occupied by a chemist and a doctor. In the first case, MR. A. W. KERNAHAN (pharmaceutical officer), explained that a front window adjoining a surgery displayed pharmaceuticals and cosmetics. The Committee decided that if the chemist ceased to use that window, the Board might consent to the accommodation arrangements. In another case the Committee recommended that the observations of the chemist should be obtained and that the matter of the doctor's occupancy should be referred to the Medical Advisory Committee. In five other cases the Committee agreed that either an inspection should be made by the pharmaceutical officer or that the views of the chemist should be sought. The Committee also suggested that the terms of the regulation should be notified to local authorities with housing estate shops.

Protecting Retailers

NEW ORGANISATION IN IRELAND

TO counter price cutting and restrictive and unfair legislation in the Republic of Ireland, the Federation of Trade Associations has been formed. Membership of the Federation is now fifty, including the Irish Drug Association. At the inaugural meeting recently the Irish Drug Association was represented by Mr. F. J. Robinson (president), Mr. J. Gleeson (vice-president), Mr. Brendan R. Smith (secretary), Mr. D. J. Murphy (treasurer), Mr. W. A. Fielding, Cork, and Mr. G. C. O'Neill, Blackrock. It was pointed out that while industrial and wholesale interests

were organised for protection, commercial and retail interests were not in such a desirable position. Through the Federation it was hoped to provide a strong, organised and united body that would speak for retailers, and tackle many of the abuses "now leading towards a chaotic state in business." Mr. Brendan Smith was elected secretary.

Benevolent Fund

MEETING IN BELFAST

AT a meeting of the Northern Ireland Chemists' Benevolent Fund held in Belfast on February 12, Mr. C. H. Quinn (president, Pharmaceutical Society of Northern Ireland) was in the chair. Also present were Messrs. J. Kerr, J. McGregor, M. C. Mooney, H. F. Moore, A. Templeton and W. Gorman (secretary). Apologies for absence were received from Messrs. J. Irwin and T. F. Storey. Mr. Quinn referred to the illness of Mrs. Irwin and it was agreed to convey the committee's wishes for her speedy recovery. The committee agreed to make a grant of £20 to a widow. The committee discussed methods by which attention could be drawn to the procedure to be followed in submitting claims for assistance. It was agreed that the matter might best be dealt with by the president when making his annual appeal. All inquiries about assistance from the Fund should be addressed to the secretary of the Pharmaceutical Society of Northern Ireland, 73 University Street, Belfast.

IRISH BREVITIES

THE Irish Chemists' and Students' debating society had a full house on February 12, at the assembly hall, College of Pharmacy, when by twenty-five votes to twenty-one a motion was passed "deploring the use of unauthorised force in connection with the partition problem."

NORTHERN Ireland Hospitals Authority has confirmed the appointment of Dr. Owen Lyndon Wade to the chair of therapeutics and pharmacology, Queen's University, Belfast. Dr. Wade succeeds Professor E. B. C. Mayrs (a member of the Council of the Pharmaceutical Society of Northern Ireland) who is retiring from the post.

NEWS IN BRIEF

REQUIREMENTS for a range of stainless steel dissecting forceps are specified in a new British Standard, No. BS2821, 1957. Copies of the Standard are available from the British Standards Institution, sales branch, 2 Park Street, London, W.1, price 3s. each.

A NEW process for converting oil under pressure into water gas is being used at a £6-millions plant now under construction at Shell Haven, Essex, for the manufacture of nitric acid and ammonia as bases for the large-scale production of agricultural fertiliser.

LOCAL OFFICERS

NATIONAL PHARMACEUTICAL UNION

North Metropolitan Branch.—Chairman, Mr. J. Piele; Vice-chairman, Mr. J. S. Grant; Secretary and Treasurer, Mr. J. F. Jack. 347 Green Lanes, Harringay, London, N.4.

TOPICAL REFLECTIONS

By Xrayser

A Vanished Band

While not going all the way with Mr. Weller, senior, in animadverting against the law, one feels on occasion that there are inconsistencies and gaps in the legislation which are hard to understand. There is now, of course, a law which has practically removed from the streets and market places that picturesque and itinerant character who found a ready outlet for his corn paint to a public that was quite ready to part with sixpence or a shilling for an article sold with such artistry. Few towns were without their characters, and in those more unsophisticated days, before television—before sound broadcasting even—the street vendor gave entertainment value to a crowd which reckoned it had had a good evening, even if the corn did not vanish with the magical speed indicated by its enthusiastic manufacturer, propagandist and salesman—for, as has been indicated, the vendor was a virtuoso. The "softening-up" process before selling began was a masterly study in crowd psychology. Some members of the profession—indeed, all of them—had the makings of good actors, with possibly that besetting weakness of the stage performer—vanity. I have seen some, carried away by their own eloquence and by their consciousness of having "got" their audience, submerge their business instincts and allow the golden moment to pass. The important thing to have remembered was the advice offered in Shakespeare, to the effect that there is a tide in the affairs of men which, taken at the flood, leads on to fortune. There was the true artist at work, the man who knew not his Shakespeare or chose to ignore him. His reward may not have been financial, but he cannot have repacked his bag at night without a feeling of pride. The creative genius, on the other hand, was he who knew the exact moment to "cut the cackle." His satisfaction was complete.

The Sympathetic Touch

The memories taken from the storehouse, dusted, and given an airing above, were evoked by the legal case reported on p. 180 of the man who appeared before the magistrates at the instance of the Pharmaceutical Society for selling a cough mixture and a tonic in street markets, contrary to the conditions laid down in the Pharmacy and Medicines Act, 1941. It is reported that the trader had been selling his own products in that way for fifty-two years. The law, as was pointed out by the presiding magistrate, was designed for the protection of the public, though he carefully and sympathetically excluded the accused from any implication that what he was selling was not good. It was not the goods themselves that were in dispute, but the manner of their sale. The whole proceedings left me with a feeling of sympathy, though the law is the law, and that there is still some heart in the world is evident from the Society's considerate offer. But there is another field in what Jeff Peters would have called a "respectable kind of graft" which is still wide open. If any man, or body of men have sufficient capital, they can open sumptuous premises, engage the services of a tablet-making company, market a new version of an established "ethical" proprietary, and send all over the country a hundred ambassadors to sell the idea and the name to the medical profession. The financier does not even require to have had any experience in pharmacy.

Tavern Claims

Your reference to the hostelry known as the "Six Jolly Fellowship Porters" (p. 187) caused me to refer to an article I had once read dealing with the tavern Dickens intended when he wrote *Our Mutual Friend*. For Dickens usually had some model in mind when he set his scenes. Claims have been made for "The Grapes" at Limehouse and for "The Prospect of Whitby" at Wapping, the latter conspicuous from the river with its overhanging balcony, and doubtless the novelist knew it. But it appears, according to G. F. Young who wrote of it in the *Dickensian* that the original was the "Two Brewers" in Limehouse, now defunct.

CHEMOTHERAPY OF VIRUS DISEASES

Research still in its infancy

EVEN more important than the intrinsic therapeutic value of the sulphonamides was their effect in directing chemical effort and research into the new and hitherto inadequately explored channel of chemotherapy, said Dr. E. WESTON HURST (head of the subdivision of micro-organismal research, pharmaceutical division, Imperial Chemical Industries, Ltd.), at the first of two University of London lectures on approaches to the chemotherapy of virus diseases (held on February 14). The result was an impressive degree of control over many bacterial infections achieved in little more than a decade. The student of today took that entirely for granted, just as earlier generations had accepted the motor-car and the aeroplane.

In the 1930's

If chemotherapeutic progress were reckoned in years then by contrast, diseases caused by viruses had research workers back in the early 30's since no practical means of influencing virus diseases by chemotherapy yet existed. That was perhaps not unexpected. Bacteria possessed more or less complete autonomy and retained completely their individuality; when infecting a mammalian host, many of them grew extracellularly in the tissue fluids. On the other hand, viruses exhibited a much greater degree of dependence on the infected host. All were obligatory intracellular parasites and many of them were apparently devoid of the enzymatic complement necessary to carry out even the most simple metabolic processes. However, it might not be unreasonable to suppose that the future chemotherapy of virus diseases would be influenced by constitutional factors, nutritional and hormonal in the host.

In attempted chemotherapeutic experiments it was necessary to ensure that dosage of toxic chemical substances was within reasonable limits and, if false positive results were to be avoided, insufficient materially to affect the vitality of the animal. To be useful in virus diseases, where so intimate a relationship existed between the virus and the metabolic processes of the host-cell, a substance would need to penetrate and to act intracellularly in such a manner as not to interfere with the essential metabolic functions of the cells. With viruses there was less evidence of a correlation between *in vitro* and *in vivo* effects than with bacteria; indeed the limited evidence available suggested that little or none existed. The chemical or physical inactivation of viruses *in vitro*, however, was of some interest concerning the use of chemical inactivating agents for the production of viral vaccines. In the past, substances such as phenol and formaldehyde had been employed almost exclusively for that purpose. They suffered from the great disadvantage of being relatively non-specific in their action and of seriously damaging all the viral proteins, including the antigenic groupings needed to stimulate antibody formation. The multiplication of viruses depended on their nucleoprotein component, and the

fact that substances like phenol and formaldehyde had been used with undoubted partial success, and had apparently inactivated virus without destroying all antigenicity, might have resulted from the relatively greater lability of nucleoproteins. It had long been recognised that to use formalin successfully in the production of a viral vaccine, the inactivating concentration was rather critical. If it was too high the vaccine lost its antigenic potency; if it were too low, permitting survival of living virus, it left the possibility of catastrophe. For many years discussion continued on whether a completely killed viral vaccine was, in fact, able to excite immunity, and recent American experience with the Salk poliomyelitis vaccine had underlined the great care that must be taken if disastrous events were not to follow vaccination with a formalinised vaccine. Only recently, however, had attempts been made to utilise some of the newer chemical substances which had much greater relative affinity for nucleoproteins and which might, therefore, be expected to abolish infectivity while retaining unimpaired the antigenicity of the virus. Such substances were the nitrogen mustards β -propiolactone and acetyleneimine. Recent experiments had suggested that vaccines produced by the agency of those substances were antigenically superior to formalinised vaccine, while the certainty of really killing the virus was guaranteed.

Hints of Therapy

From the point of view of *in vivo* effects, animal viruses might be divided into two groups—a smaller more or less effectively controlled by a number of existing remedies (the largest viruses of the psittacosis-lymphogranuloma group) and a larger for which, as yet, there existed only hints of ultimate therapeutic measures.

For the most part, the substances active against the largest viruses were also antibacterial, though there was knowledge of at least one substance, a spirothiohydantoin, which was reasonably active against psittacosis in the chick embryo and mouse, and yet wholly devoid of antibacterial activity *in vitro* or *in vivo*. In a second series of chemical substances being examined, the molecular structure changed by addition or removal of various substituents, antibacterial and antiviral activity moving in opposite directions, so that it was by no means invariable to find both activities in a single substance. Although antibiotics at present held the field there was still far from complete agreement as to which of the remedies available was the one of choice in a particular instance. That was partly because, like bacteria, viruses differed in susceptibility. Thus mouse pneumonitis responded well to the sulphonamides and poorly to the nitro-acridines, while feline pneumonitis, meningopneumonitis and psittacosis viruses did exactly the opposite. A second difficulty in assessing the value of treatment in human disease, and especially in a

disease such as trachoma in which cases varied greatly in severity in different parts of the world, was that there was no convenient animal for laboratory study. Finally, no fully comprehensive comparison of the whole range of modern antibiotics had been undertaken at one time and by the same techniques against the viruses pathogenic for man. Dr. Hurst then outlined the limitations and often apparently conflicting evidence experienced by the experimenter in that kind of study.

Drug Resistance

Dealing with the possibility of drug resistance, he said that the available evidence was reassuring. It seemed unlikely that under the conditions obtaining in human medicine, drug resistance of the larger viruses to the antibiotics would prove a serious problem.

The results of therapy in man were in fair agreement with those reported in the experimental animal and were not unencouraging. In lymphogranuloma venereum the tetracyclines were the antibiotics of choice. That was undoubtedly true also of psittacosis; against most strains of virus the sulphonamides were ineffective, and the reports of treatment with penicillin had been mixed. In the presumed virus disease or diseases passing under the name primary atypical pneumonia therapeutic effects had been claimed with chloramphenicol or the tetracyclines after therapy with sulphadiazine or penicillin had failed. In trachoma however, opinions differed to a greater degree. By various observers, the sulphonamides had been considered ineffective in treatment, as useful adjuncts to therapy either in dealing with secondary infections or in supplementing other measures, or as curative agents in themselves. One American ophthalmologist maintained that the sulphonamides constituted the first therapeutic choice and were demonstrably superior to the antibiotics. Most recent reports, however suggested that the tetracyclines were superior to other agents, including chloramphenicol. An important limitation to their usefulness was that they were too expensive to be distributed widely in the impecunious countries in which trachoma was rampant. The extent of the need for a cheap synthetic remedy for trachoma was emphasised by the fact that eight out of ten Egyptians suffered from trachoma or its effects, 20,000,000 man-days were lost annually in Tunisia from trachoma and that trachoma was the commonest cause of blindness in the British colonial territories and currently accounted for over 80,000 cases. Trachoma continued to be one of the most important targets for virus disease chemotherapy.

Speaking at the second lecture of the smaller viruses, Dr. Hurst said that attention was directed more to the future than to accomplished fact. Many problems had yet to be solved although recent experimental observations suggested that means of influencing disease due to the smaller viruses would ultimately be found.

With diminishing size it was obvious that the viruses smaller than those of the psittacosis-lymphogranuloma group must decrease progressively in structural complexity, and that those at the lowest end of the scale must be very simple structures indeed. By implication they must be increasingly dependent on the cell which harboured them for supplying the essentials for their reproduction. Vaccinia virus, with a diameter of about 250 millimicrons, had been seen under the electron microscope to have a fairly complicated structure and to contain, when purified, various enzymes, a co-enzyme and other substances. It was not at all certain, however, whether some of those constituents might not have been acquired during or after the process of separation from the host cell. Influenza virus (125 millimicrons) was certainly rather complicated. Relatively little attention had been devoted to the still smaller viruses, though all that had been purified had been shown to contain protein and nucleic acid, the latter usually ribonucleic acid. It was generally believed that it was the nucleic acid which was essential for reproduction of the virus.

Present evidence suggested that the nucleic acid was the essential component of viruses by means of which they gained control over the metabolic processes of the host cell, and induced them to synthesise more viral nucleic acid thus ensuring their own survival. Present knowledge fell far short of that needed intelligently to intervene in the process as it occurred in the mammalian host, but the absence of such knowledge had not deterred workers from following certain lines of investigation in the hope of obtaining leads.

Following a current trend in chemotherapy, various workers had sought to influence the course of events by the use of analogues of substances essential for cellular metabolism. In plants, with bacteriophages and in animal tissue-cultures, the growth of viruses had been influenced by concentrations of chemical substances well below those seriously toxic to the cells. Thus the guanine analogue 8-azoguanine might modify infection with certain viruses of plants; it was actually incorporated into the viral nucleoprotein, production of virus was delayed, and the analogue-containing virus was less highly infective than

was normal virus. 2-Thiouracil acted on other virus diseases of plants. 2:6-Diaminopurine inhibited the growth of vaccinia and other viruses in animal tissue cultures. Amino acids and their analogues had been examined in great variety. Methionine had been shown to be essential for the growth of several animal viruses, the multiplication of which might be inhibited by ethionine.

While studies such as those provided valuable basic information on the requirements for viral growth in tissue culture, none of the substances examined appeared to have any useful activity in the experimental animal and so to be of practical value.

The action of mepacrine was a true antiviral one because titration of virus in the blood and organs of treated mice showed that growth of virus was wholly or partly suppressed according to the dose administered.

He and his colleagues, said Dr. Hurst, were spending a great deal of time in trying to find an active metabolite of mepacrine—which might then be expected to be active in other animal species—but so far they had been unsuccessful.

SCOTTISH EXAMINERS' REPORTS

Improved aseptic technique

THE annual report for 1956 of the Pharmaceutical Society's Board of Examiners for Scotland reveals a low standard in pharmacognosy, a great improvement in aseptic technique, and an improving standard in pharmacology.

Weaknesses in Microscopy

In both theory and practical pharmacognosy examinations the greatest weakness was shown in those parts of the syllabus dealing with microscopical characters. The question dealing with the deterioration of drugs showed a lack of fundamental knowledge of the constituents and a lack of familiarity with crude drugs. The knowledge of the chemical tests for unorganised drugs was scanty and there was still a tendency in the practical examination to guess, often wrongly, the identity of unorganised drugs and proceed to draw up an answer without carrying out sufficient tests. Practical books maintained the improvement reported by the examiners on a previous occasion but there were still some books which showed very poor work.

In the pharmaceuticals written examination the average standard of the answers was mediocre. In the practical examination there was a continued failure of candidates to check calculations or even to stop and consider whether the numerical answer obtained was a reasonable one. Many candidates failed to sterilise containers for eye-drops while others omitted to mark the autoclaves with their name and time of sterilisation. The reduction in the number of items to be dispensed from five to four did not appear to have benefited the candidates. It was pleasing, however, to report a great improvement in aseptic technique although candidates still lost marks by producing ampoules ending in a sharp

There was an improving standard in pharmacology, possibly reflecting the gradual appreciation by the teaching schools of the emphasis placed on that part of the subject. It was noticeable in the oral examination that candidates with experience of dispensing possessed a well-grounded knowledge of the usage of pharmaceuticals, which was lacking in the others. A few of the written papers were of a very high standard, and compared favourably with university standards. In the practical examination histology was in the main adequate and the teaching appeared uniform throughout the schools. In certain training centres the emphasis placed on human physiology and applied pharmacology was still too light for the importance of that aspect of the course.

"Generous" Choice of Questions

The examination in pharmaceutical chemistry had reached a stage where a fairly well defined pattern could be seen. In the theory it was possible to classify the candidates as those who would have attained the pass mark if they had attempted any five questions in each paper, those who found the choice essential, and those who were finding the subject difficult and might eventually reach the pass mark by dint of much reading without ever really appreciating or understanding the subject. It was obvious that some students, because of the generous choice of questions were tending to neglect parts of the syllabus. There was also an obvious desire to evade any question which suggested the most elementary mathematical considerations. The practical examination disclosed a few first class candidates but generally the results suggested that practical chemistry was looked on as a series of routine exercises, unconnected with any fundamental theory. As a result titrations

were carried out with solutions of a concentration entirely unsuited to the exercise. The implications of the general notice appearing on p. 3 of the Pharmacopœia regarding quantities of material to be taken for analysis should be noted. [In the description on assays, the quantity of substance to be taken is indicated. The amount stated is approximate only, but the quantity actually used must not deviate by more than 10 per cent. from that stated.] In many cases no attempt was made to classify an unknown compound as organic or inorganic, the result being attempts to determine the melting point of such compounds as barium sulphate and zinc oxide. A reasonable percentage of candidates gained a pass mark in forensic pharmacy, but the standard fell slightly. Questions involving the drafting of specimen labels were poorly answered by the majority of students.

Dealing with the Intermediate examination the report states that the standard was not markedly different from that of recent years. In zoology practical there was a tendency to hasty spot identification of specimens. There was a lack of originality in the chemistry examination and frequently no attempt was made to balance equations. In the practical examination many candidates would have benefited by shortening the time spent in preliminary testing. Incorrect use of logarithms was a glaring weakness in the physics paper where such a mistake should be a rare occurrence. There was, however, an improvement in the performance of electrical experiments.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following:

Capsule, half black, half yellow (name and maker).

AGYINKWA MILLER'S magic balm.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

THE Rating and Valuation Bill was given a second reading on February 2.

Medical Gases Report

SIR DAVID ECCLES (President of the Board of Trade) told MR. DOUGLAS JAY on January 31 that he was still considering the Monopolies Commission's report on the supply of certain industrial and medical gases (*C. & D.*, January 12, p. 31).

Factory Heat Insulation

The Thermal Insulation (Industrial Buildings) Bill, a private member's Bill, was introduced to the House of Commons by Mr. G. Nabarro on January 30. The Bill would make compulsory the thermal insulation of all new industrial buildings.

Dermatological Clinic Prescriptions

MR. DENNIS VOSPER (Minister of Health) told MR. M. PHILIPS PRICE, in a written answer on February 12, that there was some tendency for the average number of items on dermatological clinic prescriptions to be higher than the general average; but he was not satisfied that any special action was needed in addition to the existing arrangements to give assistance [in the matter of the shilling levy] when it was required.

Research on Rheumatic Diseases

MR. DENNIS VOSPER (Minister of Health) told MR. P. H. COLLICK, in a written answer on February 13, that the amount of money spent by the Medical Research Council on research into the causes and cure of rheumatic diseases had risen from £2,100 in 1945-46 to £28,700 in 1956-57.

Poliomyelitis Vaccination

MR. DENNIS VOSPER (Minister of Health) told MR. S. P. VIANT, in a written answer on February 18, that approximately 31 litres of poliomyelitis vaccine had been sent to local authorities in December 1956; but none so far this year.

Composite Packs

MR. DENNIS VOSPER (Minister of Health) told MR. NESS EDWARDS, in a written answer on February 18, that the following sets of apparatus or dressings, each of which included two or more articles, could be ordered as one prescription: Atomiser; colostomy apparatus; douche; hypodermic syringe; smog mask; multiple pack dressing; perfusion fittings; suprapubic belt; Higginson's enema syringe; urine sugar analysis set; vaporiser.

Flame-proofing Formulas

MR. F. J. ERROLL (Parliamentary Secretary to the Board of Trade) told MRS. F. P. A. McLAUGHLIN on February 19 that he would not introduce legislation to ensure that the formulas of all powders and liquids sold for temporary flame-proofing of clothing should be shown on the bottle or packet. MR. H. A. MARQUAND asked if the Minister was aware that one of the most widely advertised preparations of the kind consisted very largely of boric acid and

thus carried with it the risk of "borax" poisoning, particularly dangerous to infants? MR. ERROLL replied that borax did not appear as a poison in the Poisons List under the Pharmacy and Medicine Act, 1941 [*sic*].

Health Service Costs in 1957-58

Making a statement in the House of Commons on February 19 on the 1957-58 Estimates for defence and civil expenditure, MR. PETER THORNEYCROFT (Chancellor of the Exchequer) said that the Government had given anxious consideration to the growing cost of the National Health Service. When the Service was introduced it was expected to cost a total of £175 millions a year. In 1957-58, the total cost of the Service would be £690 millions. Towards that, as things stood now, £40 millions would come from the contribution made from the National Insurance Fund, which was tenpence in respect of the adult man and lesser sums in respect of other contributors; £100 millions would come from a variety of other receipts (including charges to patients), and the whole of the balance of £550 millions—or £49 millions above 1956-57—would be provided by general taxation. The alternatives to that increase in the charge on the Exchequer were to reduce the scope of the Service, to charge more to patients, or to increase the contribution. It was widely believed that the National Health Service was paid for by weekly contributions. That was not so. When the original N.H.S. Bills were before Parliament, it was expected that the Fund's contribution would provide about one-fifth of the gross cost of the Service. Today, it provided only about one-seventeenth. The Government therefore proposed to increase the contribution by tenpence in respect of an adult man, and by smaller sums in respect of adult women and juveniles. The employer would pay the same proportionate share as at present [1½d.].

OVERSEAS VISITS

MR. G. P. DENTON (advertising manager, John Bell, Hills & Lucas, Ltd.), is visiting West Africa and South Africa shortly on behalf of the company. Upon his return he is to be appointed to the board, having completed fifty years with the company.

MR. R. H. HENRIKSEN, F.R.I.C., M.P.S. (deputy general manager, Roussel Laboratories, Ltd.), left London on February 20 for a visit to some of the company's overseas markets. He intends to visit Canada, Australia and New Zealand and will be away for about five weeks.

MR. J. E. C. BAILEY (chairman and managing director, Baird & Tatlock (London), Ltd., Hopkin & Williams, Ltd., and W. B. Nicolson (Scientific Instruments), Ltd.) is making a short tour of Africa, visiting Johannesburg, Durban, Salisbury, Ndola, Nairobi and Kampala, to discuss general matters relating to the export of scientific equipment and chemicals with the companies' representatives and agents in those centres.

LEGAL REPORTS

Remanded on Forgery Charges

AT Bexhill magistrates' court, recent Pamela Mary Crosby, Elm Terrace, House, Old Town, Bexhill, appeared on charges of obtaining sixty Dextrin tablets each from J. R. Ferguson, M.P.S.; William Henry Lister, M.P., the Sea Road Pharmacy, Meyrick Davies, Ltd.; and Bishop (Bexhill) Ltd., all chemists in Bexhill. She was allowed bail in her own surety of £50 and an additional surety of £50.

Drug Without Authority

DESCRIBED as a medical practitioner Francis Percival De Caux, Park Wood, London, W.2, was remanded on bail Marlborough Street, London, magistrates' court, recently, charged with procuring 100 tablets of Omnopon without authority. Mrs. S. E. Harcourt, Stoke Newington, said that, on November 5, 1956, she went to Dr. De Caux and asked him for something to relieve her husband's pain. At first he told her to go to her own doctor, but later handed her two prescriptions which she took to a chemist and collected a bottle of medicine. On November 12 her husband again went into hospital and a week later he died. Mr. Denis McGarry, a director of a company of chemists in Wigmore Street, said that for a number of years "Dr. De Caux" had been a customer who had had accounts rendered to him that name. After he had telephoned about two prescriptions he handed "Dr. De Caux" the 100 tablets Omnopon. The other prescription related to an opium mixture. When the magistrate asked whether the accused was a registered medical practitioner prosecuting counsel said that he was not. Under cross-examination, Mr. McGarry said he had assumed that De Caux was a doctor until he discovered that he was not in the medical register. He agreed that the accused could have been on the books of the firm since 1921. He did not know that he had one time been "M.R.C.S., L.R.C.P."

COMPANY NEWS

Last year's figures in parentheses

DIXOR LTD.—Net profit after tax for 1956 is £4,855 (£5,856) and dividend, 12½ per cent. (same), as stated *C. & D.*, February 2, p. 110.

ROBINSON & SONS, LTD.—Mr. Ernest S. Robinson has been elected to the board of directors of the company's dressings division.

BEECHAM GROUP, LTD.—A second interim dividend of 10 per cent. less tax, has been declared on the ordinary shares of the company, on the basis of the profit for the year ending March 31.

EVANS MEDICAL SUPPLIES (IRELAND), LTD.—Mr. Cyril Staunton, M.P.S.I., has been appointed a director and the general manager of the company in Dublin.

IDRIS, LTD.—Profit for year ending October 31, 1956, including £3,267 from investments is £99,470 (£117,829). After depreciation of £29,192 (£34,510) and directors' fees and emoluments, etc., profit is £59,842 (£71,138) before

and £30,461 (£37,854) after tax. Ordinary dividend recommended is 12 per cent. (same), less tax.

HICKSON & WELCH (HOLDINGS), LTD.—Group profit, before taxation, for the year ended September 30, 1956, was £417,333 (£406,894). Taxation charged, £214,721 (£210,323). Despite lower prices overseas and rising costs at home, the group managed in most cases to meet foreign competition, and by increased production attained a record turnover and profit for the year under review says the chairman (Mr. B. Hickson).

COOPER, McDUGALL & ROBERTSON, LTD.—Mr. T. C. Betteridge retired from the board on January 31. He had been with the company for nearly fifty years, twenty-seven of which were spent in South America. Before returning to Great Britain in 1939 he was managing director of the Argentine associated company. Mr. Michael H. McDougall was appointed a director on February 1. The son of a former vice-chairman, he has been with the company thirty years and is chairman of the South African associate: Cooper & Nephew S. Af. (Pty.), Ltd.

BUSINESS CHANGES

WHIFFEN & SONS, LTD., have removed to Fison House, 95 Wigmore Street, London, W.1 (telephone: Welbeck 5500).

MR. MILO TURNER, M.P.S., is opening a branch pharmacy at 6 Roman Way, Dordon, Tamworth, Staffs, on March 1.

LONDON CO-OPERATIVE CHEMISTS, LTD., purchased the pharmaceutical business of J. Reed & Co., Ltd., 10 Church Street, West Ham, London, E.15, on February 14.

HARTLEPOOLS CO-OPERATIVE SOCIETY, LTD., have opened a pharmacy at 99A York Road, West Hartlepool, which replaces the business formerly carried on at 110 York Road, West Hartlepool.

MR. J. K. O'SHAUGHNESSY, M.P.S.I., has disposed of his pharmacy at Achill Sound, co. Mayo, Eire, to Mr. John G. McHugh, M.P.S.I., and has opened a pharmacy at 356 Collin's Avenue Extension, Ballymun, Dublin.

Appointments

ARMY & NAVY STORES, LTD., Victoria Street, London, S.W.1, have appointed Mr. L. Edwards, M.P.S., manager of their drug department in succession to Mr. F. A. Mackay, M.P.S., who has retired after thirty years' service with the company.

ROUSSEL LABORATORIES, LTD., announce that Mr. D. W. McMullan, M.P.S.N.I., who has been acting as the company's representative in Northern Ireland, has been appointed to their subsidiary in Australia to assist in the training and supervision of a representative team now being recruited there. Mr. McMullan will be leaving for Sydney on March 1. His address in Australia is c/o Roussel Pharmaceuticals (Pty.), Ltd., 686, New South Head Road, Rose Bay, Sydney, New South Wales.

PERSONALITIES

MR. M. W. SMITH, B.Pharm. (London), has been appointed Junior Fellow in pharmacology, Bristol University.

MR. G. J. BROOKES, M.P.S., who addressed members of Cirencester Rotary Club, recently, recounted his experiences during twenty-five years as a pharmacist.

MR. CYRIL J. STAUNTON, M.P.S.I., who has been appointed a

director of the Irish board and general manager of Evans Medical Supplies (Ireland), Ltd., in Dublin, is a Galway man. Educated at St. Nathy's College, Ballaghaderreen, co. Roscommon, he served his apprenticeship with his father, Mr. E. P. Staunton, M.P.S.I., Ballaghaderreen, and subsequently gained wide experience as an assistant with the late Mr. J. M. Huban, Athlone; the late Mr. J. J. Cahill, Castlebar; Mr. W. A. Quirke, Clonmel; and with Hayes Conyngham & Robinson, Ltd., at their Ballsbridge, Dublin, branch. When he qualified as a licentiate of the Pharmaceutical Society of Ireland in October 1935 he was awarded the Society's silver medal. For a period he was manager of Messrs. Hayes Conyngham & Robinson's pharmacy in Henry Street, Dublin, and on January 1, 1936 joined the staff of Messrs. Evans Medical as medical representative. In January 1942 Mr. Staunton became the firm's drug representative, and as such has since covered twenty counties in the Republic south of the Sligo-Dublin main road.

MR. STEWART M. RITCHIE, who is in charge of the medical promotion administration of Menley & James, Ltd., was presented with the diploma in management studies by Mr. B. C. Studd (president of the Polytechnic) at the Polytechnic Management Association's dinner recently. Mr. Ritchie joined Messrs. Menley & James as a representative in 1947 and subsequently served as a medical writer and assistant advertising manager.

DR. O. L. WADE, who has been appointed to the chair of therapeutics and pharmacology at Queen's University, Belfast (see p. 203), was educated at Repton School and Emmanuel College, Cambridge. He obtained first-class honours in both Part I and Part II of the natural science tripos. He attended University College Hospital medical school and gained prizes in medicine and practical surgery and medals in surgical pathology, clinical surgery and clinical medicine, and an award as the best student of the year. He qualified in 1945. Dr. Wade was appointed clinical assistant to the pneumoconiosis research unit of the Medical Research Council at Cardiff in 1948. In 1951 he

became senior registrar and subsequently senior lecturer in medicine at Birmingham University and consultant physician to the United Birmingham Hospitals. During 1954 and 1955 Dr. Wade held a Rockefeller travelling scholarship at the Department of Medicine of the Presbyterian Hospital, New York, under Professor R. Loeb, of Columbia University. He also travelled extensively in the United States and Canada. Dr. Wade is thirty-five years of age.

MARRIAGES

CASSIDY—COLEMAN.—At Corpus Christi Church, Drumcondra, Dublin, James J. Cassidy, M.P.S.I., Artane, Dublin, to Aileen Coleman, Drumcondra, Dublin.

Golden Wedding

PARTRIDGE—PRATTEN.—At St. Luke's Church, Bedminster, Bristol, on February 5, 1906, Walter E. Partridge, M.P.S., Bristol, to Florence Pratten, Bristol. Present address: 13 Broad Oak Road, Weston-super-Mare. Mr. Partridge, a former chairman of the Bristol Branch of the Pharmaceutical Society, served his apprenticeship with G. W. Isaac & Sons, Clifton, Bristol, and qualified in 1913. In 1918 he acquired the shop he had managed at 431 Gloucester Road, and finally owned five more shops in various parts of Bristol before he retired in 1951. During his business career Mr. Partridge trained twenty apprentices all of whom qualified and several of whom are now proprietor-pharmacists. The family tradition is being carried on by an only daughter, Phyllis Irene, who is a pharmacist and is married to Mr. W. F. J. Bowerman, M.P.S.

DEATHS

BIRD.—On October 3, 1956, Mrs. Mary Agnes Bird, M.P.S., Bird's Hotel, Winscombe, Somerset. Mrs. Bird qualified in 1932.

BRADDOCK.—Recently, Mr. John Braddock, M.P.S., Lambgates House, Hadfield, Manchester, aged seventy. He had been in business in Hadfield for thirty years. Before setting up in his own business he was manager of the pharmaceutical department of Burgon's, Market Street, Manchester.

DYER.—On February 1, Mr. Bernard Dyer, M.P.S., Redroof, King's Road, Honiton, Devon, aged sixty-six.

HARTLEY.—In a London nursing home on February 16, Sir Percival Hartley, C.B.E., M.C., F.R.S., aged seventy-five. Sir Percival was a member of the British Pharmacopœia Commission, 1933-48, and of the Medical Research Council, 1949-53. He was knighted in 1944 for work in connection with the development of penicillin for medical uses. He spent two years at the Wellcome Physiological Research Laboratories before joining the National Institute for Medical Research in 1922. He became director of biological standards.

HENDERSON.—On February 13, Mr. Henry Henderson, M.P.S., 88 Old Craigie Road, Dundee, aged fifty-nine. Mr. Henderson was a director and manager of Johnston & Adams, Ltd.,



manufacturing and wholesale and retail chemists, Dundee. Mr. Henderson joined the company about thirty-five years ago and was continuously with them except for a few years prior to 1941 when he was in Nottingham. He is survived by his widow.

JENSEN.—On November 11, 1956, Mr. Harold Rupert Jensen, M.P.S., Silverdale, The Dell, Prestatyn, Flints. Mr. Jensen qualified as a chemist and druggist in 1902.

MARSH.—On January 28, Mr. William Henry Marsh, M.P.S., 369 Clayhall Avenue, Barkingside, Essex, aged ninety-one. Mr. Marsh was formerly in business at Seaside Road, Eastbourne, Sussex.

MORRISH.—At his home, Marlesford, Radford Park Road, Plymstock, Devon, on February 6, Mr. Harold Morrish, M.P.S., aged forty-eight. Mr. Morrish was for many years manager of one of the pharmacies of Plymouth Co-operative Society, Ltd. He was the local Health Service rota liaison officer. He is survived by his widow, a son and a daughter.

MORTIMER.—A memorial service to the late Mr. Arthur Mortimer, O.B.E. (see *C. & D.*, February 2, p. 111) was held at St. Pancras Church, London, N.W.1, on February 19, at which an address was given by the Bishop of Dunwich (Rotarian Tom Cashmore). Among those who attended were Messrs. A. Aldington, H. E. Chapman (representing the chairman of the Proprietary Articles Trade Association, Mr. Leslie W. Smith), W. H. Cloud, Norman Dewey, Alan Duckworth, R. Campbell Feather, C. Mervyn Hill, D. W. Hudson, R. H. Kemp, J. M. Kirkness, L. F. Kitch, Misses J. Luckings and C. E. Mozley-Stark, Messrs. H. D. R. Matthews, C. Gordon Oakes, A. J. Plowright, E. Preston, R. L. Taylor, J. S. Walmsley, members of the family, and many Rotarians and Freemasons.

NOBLE.—At 19A Willowbrae Avenue, Edinburgh, on February 12, Mrs. Mary Helen Graham Millar, wife of Mr. John Noble, M.P.S.

OUTEN.—On February 9, Mr. Roland Thomas Outen, 20 Market Mews, London, W.1, aged fifty-six. Mr. Outen was deputy-chairman, Smith & Nephew Associated Companies, Ltd.

STEPHEN.—On February 2, Mr. Norman Ainsworth Stephen, M.P.S., c/o Crawford, 23 Luton Place, Edinburgh, 8, aged forty-three.

TAIT.—On February 3, Mr. Albert Patrick Tait, M.P.S., The Chestnuts, Mardley Hill, Welwyn, Herts, aged seventy-seven. Mr. Tait was formerly in business in St. Swithin's Lane, London, E.C.4.

WILSON.—At his home, 91 Wimbledon Hill, London, S.W.19, on January 30, Mr. William Jessup Wilson, aged seventy-six. Mr. Wilson had been vice-chairman, since 1932, of The Crookes Laboratories, Ltd.

WOLF.—In a Manchester hospital on February 13, Mr. Arnold Wolf, Ph.D., A.R.I.C., aged fifty-one. Dr. Wolf was chairman and managing director of Victor Wolf, Ltd., glycerin manufacturers, Manchester.

HOSPITAL SALARY SCALES

Revisions needed in *C. & D.* Diary and Year Book

AS a result of the recently agreed revision of hospital pharmacists' salaries (see *C. & D.*, December 8, 1956, p. 617), the following should be substituted for the entry on p. 358 of *THE CHEMIST AND DRUGGIST Diary and Year-book*:—The salary scales for hospital pharmacists, as given in the table, are set out in circular No. 21 (dated January 8, 1957) of the Pharmaceutical Whitley Council, Committee C, and operate as from November 1, 1956.

Pharmacists employed at hospitals in the Metropolitan Police area and in the City of London are entitled to an extra "London weighting" as follows:—£20 per annum for ages 21 to 25, above that age £30 p.a. (for salaries up to £800 p.a.), £40 p.a. (£801–£1,000) and £50 p.a. (over £1,000).

If required to attend an evening clinic outside a 39-hour working week, the pharmacist receives 10s. 6d. for each hour of extra work. Part-time pharmacists working up to twenty-four hours per week are entitled to 33s. per session of four hours (42s. if in sole charge). A proportionate sum is paid for shorter periods calculated to the nearest completed half-hour. If more than twenty-four hours are worked in a week, a pro-rata payment on the full-time scale is made.

Possession of a higher qualification (university degree in pharmacy, or in a relevant field of science, A.R.I.C., F.P.S.) entitles the pharmacist to a special allowance of £25 per annum.

The salaries for hospital dispensing assistants (from January 1 or the beginning of the first full pay period following December 12, 1956, if that is

different) are: Age 16, £170; 17, £185; 18, £205; 19, £235; 20, £270; 21, £310; 22 and over, £375 with three annual increments of £15, followed by one of £20, two of £15 and one of £20 to £490. When responsible for dispensary supplies, and not supervised by a pharmacist, the assistant receives £10 per annum (£20 if he supervises other assistants). Temporary duty of one month or more entitles him to a proportionate payment. Attendance at evening clinics in addition to a normal 39-hour week is paid at the rate of 4s. 6d. per hour. Pregraduate students having passed the intermediate examination receive £180 the first year and £210 the second or, if the examination has not been passed, £160 and £190. Postgraduate students receive £385. "London weighting" is £10 per annum where the age is below twenty-one years, £20 between 21 and 25 years, and £30 for persons aged twenty-six and over.

Hospital

GRADE	SALARY SCALE (£ per annum)
Pharmacist ..	580 x six 30's x one 25 to 785
Senior Pharmacist Chief (I); deputy chief (IV) ..	550 x six 30's to 830
Chief (II); deputy chief (V) ..	675 x seven 30's x one 25 to 910
Chief (III) ..	725 x two 30's x five 35's x one 30 to 990.
Chief (IV) ..	785 x two 30's x two 35's x three 40's x one 35 to 1,070
Chief (V) ..	845 x three 30's x six 40's to 1,175
Chief (V) ..	900 x three 40's x five 45's x one 40 to 1,285

TRADE NOTES

SMITH & NEPHEW, LTD., Welwyn Garden City, Herts. Nivea products. Generous free goods issue, a versatile new counter merchandiser, and quantity discount terms. On direct orders from February 25 for limited period.

WRIGHT, LAYMAN & UMNEY, LTD., 42 Southwark Street, London, S.E.1. Wright's domestic and garden anti-pest preparations. Twelve for price of eleven (minimum order three doz.).

Gynaecological Specialities.—The range of gynaecological pharmaceutical products of Ortho Pharmaceutical, Ltd., High Wycombe, Bucks, are kept constantly before the medical profession by representatives and medical Press advertisements.

"With Bobbles of Mink."—A pair of mink-and-lace-trimmed nylon waterproof baby pants, airmailed by Mrs. Edna Baderman, Barkingside, Essex, to Princess Grace of Monaco for her new baby, were made by Kleinerts Rubber Co., Ltd., 91 New Bond Street, London, W.1. The makers describe the pants as being "of white nylon, plastic lined, with lace trimming round the legs, blue or pink ribbon bows and two bobbles of real mink, easily detached for washing."

Bonus Offers

ELSAN MANUFACTURING CO., 51 Clapham Road, London, S.W.9. Elsanair. 10s. on 1 gross; 5s. on $\frac{1}{2}$ gross; 2s. 6d. on three doz. In return for display.

B.G.P. (COSMETICS), LTD., 37 Chesham Place, London, S.W.1. Lip-Cote. Fourteen large bottles or thirteen small for every doz. ordered respectively.

GOYA, LTD., New Bond Street, London, W.1. Sombrero suntan cream. One doz. tubes free with every gross ordered.



SHAVEN IN "COMPANION SET": An electric shaver replaces a safety razor in a companion set brought out by Foster Chapman, Ltd., Ilford, Essex, in celebration of the company's twenty-fifth anniversary. Available in three styles, the set takes the Remington Super 60 shaver. It was shown at the recent Leather Goods Industries Fair.

NEW PRODUCTS AND PACKS

Additions to Range. — Boots Pure Drug Co., Ltd., Station Street, Nottingham, have added to their catalogue boxes of sixteen and 100 250-mgm. tablets of novobiocin.

Compound Penicillin Tablets. — Imperial Chemical Industries, Ltd., pharmaceuticals division, Fulshaw Hall, Wilmslow, Manchester, have added to their range of medical products Penavlon V tablets, each containing the equivalent of 120 mgm. (frec acid) of penicillin V, and phenoxymethyl penicillin, equivalent to 200,000 units penicillin G. The tablets are scored so that they can easily be broken into two for convenience in dosing. The packs are a tube of fifteen and bottles of 100 and 500.

Now Commercially Available. — Matromycin, the Pfizer brand of oleandomycin (see *C. & D.*, November 11, 1956, p. 547) is now available in the United Kingdom. Active against a wide range of Gram-positive organisms (particularly the staphylococci, streptococci and pneumococci) its effective range extends to some Gram-negative bacteria and certain large viruses, leptospira and amoebæ. Matromycin is claimed readily absorbed from the gastro-intestinal tract, rapidly attaining high serum concentrations. In animal and clinical trials it has been shown to be virtually non-toxic. Matromycin is supplied in bottles of twelve and 100.

Phenothiazine and Isoprenaline Specialities. — John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1, have introduced two new medicinal specialities. Sparine is a new phenothiazine derivative for the symptomatic treatment of acutely agitated or confused patients. It is available for oral administration in containers of fifty and 250 25-mgm., 50-mgm. or 100-mgm. sugar-coated tablets (yellow, orange and red respectively); and for parenteral administration in box of ten 2-c.c. ampoules of solution (50-mgm. of promazine per mil). The other speciality, Isolevin, is the laevo-rotatory form of isoprenaline indicated in the treatment of bronchospasm, bronchial asthma, and similar conditions. It is available in pack of twenty sublingual tablets or as a spray solution.

New Small Size. — A new size of Nucta cream shampoo (sufficient for three shampoos) is now available from the manufacturers, Stewart, Goodall & Dunlop, Ltd., 121A Princes Street, Edinburgh. The pack is an unbreakable plastic tub, and the standard outer contains twenty-four tubs.

Air-freshening Block. — Elsan Mfg. Co., 51 Clapham Road, London, S.W.9, are marketing an air-freshening block. Elsanair, in either lavender or carnation perfume. The block is issued in a cardboard container for standing, and with tag for hanging on hook or nail. The display carton contains three doz. blocks.

To Match the Spring Fashions. — Coty (England), Ltd., Stratford Place, London, W.1, have produced a new shade of lipstick, "rose amaranth," to match the gloves and hats on which

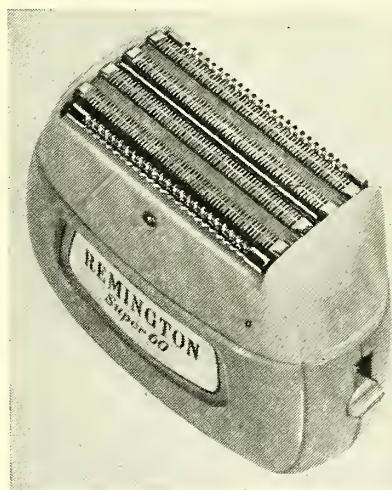
gloves and milliners are concentrating for the Spring. "Rose amaranth" is intended to be worn with black, green, pink, Spring navy, and all shades of blue.

Water-bottles in Polythene. — Industrial Appliances, Ltd., 21 Grosvenor Street, London, W.1, have brought out a Poly-tainer water-bottle for hikers, campers, cyclists, school-children, motorists, etc. The bottle is in natural polythene, with red cap and straps, and is suitable for both hot and cold drinks. The cap is captive and, being self-sealing, renders the bottle leakproof. It is available in 16-oz. and 32-oz. capacities of container.

Side-roller Shaving Head. — A new device now standard on the Remington Super 60 electric shaver is known as the Rollectric feature. Its purpose is to expose "hidden beard" (the bristles concealed in folds of the skin, particu-

larly under the chin and on the neck). The Rollectric device consists of specially designed rollers on either side of the multiple shaving heads. They are understood both to promote a faster and smoother shaving action and to smooth out the skin folds as they move over the face. Stocks of Super 60 models still in dealers' hands should be returned before March 28 to: Sales Promotion Department, Remington Rand, Ltd., Shaver Division, 26 Kensington High Street, London, W.8.

New Shaver Models. — Two additional models have been added to the range of Philishave electric dry shavers, the manufacturers of which are Phillips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2. The new models are being released to the public on March 1. A new standard model is identical in appearance and general construction with the present dual-voltage model, but works on a single voltage range: 200-250 volts a.c./d.c.; it is supplied with a cleaning brush and two-pin 5-amp. plug but without bayonet-type adaptor, and is packed in a tan-coloured plastic pouch with zip fastener. A new version of the battery-operated Philishave, designed specially for travellers, motorists, campers and others, makes use of three 1½-volt torch batteries to drive a 4½-volt motor providing power "for 200 shaving minutes" (that is, the batteries need to be replaced about once every six weeks). Shaver, battery box (incorporating non-breakable mirror) and cleaning brush are finished in maroon and packed in a rubber-lined, tartan-covered travelling pouch (batteries not supplied). Two additional fittings are obtainable at the option of the user, enabling the shaver to run off a 6-volt or 12-volt car battery.



MANUFACTURERS' ACTIVITIES

Laboratories for Scottish Factory. — New laboratories for development and analytical chemical work are to be built at the Montrose factory of Glaxo Laboratories, Ltd. Permission has been granted in the Dean of Guild Court.

New Offices. — Work has begun on an eight-story building at Portman Square, London, which has been let in its entirety to F. W. Berk & Co., Ltd., chemical manufacturers, 1 Oxford Street, London, W.C.1, who will use the upper part as their main offices.

Spring Sale Competition. — Representatives of Newton Chambers & Co., Ltd., are now taking part in the company's annual spring sale competition. Both team and individual competitions are being held, and to boost sales, special offers are being made to the trade. Vouchers on a nationally-known men's clothing firm are being offered as prizes. The competition ends on April 30.

Staff Dance. — More than 350 people attended the annual staff dance of F. W. Hampshire & Co., Ltd., held in Derby on February 8. The dance was organised by the company's social committee and Mr. C. E. Whitney (managing director,

F. G. Pearce, Ltd., a subsidiary company of Messrs. F. W. Hampshire) was M.C. The directors who attended were Messrs. E. J. Moseley (chairman and managing director), D. A. Hampshire, L. Bartholomew, H. Cawdron, and R. E. Beckett.

Exhibitors at Dog Show. — Among exhibitors at Cruft's dog show held in London, February 8 and 9, were the following: — ASHE LABORATORIES, LTD., Leatherhead, Surrey (Amplex for animals); BENBOWS DOG MIXTURE CO., LTD., Shortlands, Bromley, Kent (Balance vitamin supplement, and Benbow's dog mixture); LENNECK DOG FOODS, LTD., Charlton Mackrell, Somerton, Somerset (Lennek milk food); JOHN MORRELL & Co., LTD., Liverpool, 1 (Red Heart dog food); PETFOODS, LTD., Melton Mowbray, Leics (Meet, Lassie and Chappie dog foods); PHILLIPS YEAST PRODUCTS, LTD., VETERINARY DIVISION, London, N.W.10 (Stress, Vetzyme and Zemol); RECKITT & COLMAN, LTD., Hull (Dettol); SCOTTISH ANIMAL PRODUCTS, LTD., Barrhead, Glasgow (Kennomeat dog foods); SPRATTS PATENT, LTD., London, E.3 (Spratts dog foods).

BRANCH AND ASSOCIATION MEETINGS

HUDDERSFIELD

Stabilised Prices

THE system of stabilised prices and fair profits for proprietary goods, for which the Proprietary Articles Trade Association had been responsible for the past sixty years, had been taken too much for granted by those who benefited from it, MR. H. E. CHAPMAN (secretary, P.A.T.A.) told members of Huddersfield Chemists' Association recently. Section 24 of the Restrictive Trade Practices Act outlawed, so far as price maintenance was concerned, the previously existing common law right of combination by manufacturers and distributors to defend their trade interests, but a new statutory remedy against price cutting had been made available for the individual manufacturer, and the P.A.T.A. was in a position, within the law, to its members in applying the remedy. That right was embodied in Section 25 of the Act, which permitted the enforcement by legal proceedings of conditions as to resale prices imposed by individual manufacturers. Chemists asked what the P.A.T.A. was now doing in matters relating to price maintenance. The answer was that it had begun to do what it could lawfully do in the interests of its members. A number of the important proprietary manufacturers had, individually, requested the P.A.T.A. to write on their behalf to certain traders known to be selling their respective goods at cut prices, drawing the traders' attention to the manufacturer's price conditions and asking, for transmission to the manufacturer, for an assurance that in future those conditions would be observed. That was "serving notice of resale price conditions," and if, at a later stage, it was proved that goods acquired by the trader, subsequent to the notice being served, were being sold otherwise than in accordance with the conditions, the way would be open for the institution by the manufacturer, with the assistance, if he asked for it, of the P.A.T.A., of proceedings under

Section 25. P.A.T.A. membership included over 300 proprietary manufacturers, sixty members of the wholesale section and several hundred affiliated wholesale members. About 11,500 chemists in retail business constituted the retail section, and the Association also enjoyed the support of the company chemists.

NORTH LONDON

Barbiturate Addiction

ADDITION to barbiturates was much more prevalent than was generally admitted, DR. R. E. FORD (a principal medical officer of the Ministry of Health) told a joint meeting of the North London Pharmaceutical Association and the City, North Middlesex, Barnet and St. Pancras Divisions of the British Medical Association, recently. In all, 48 tons of barbiturate had been used in 1955 at a cost of £2 million, equivalent to twenty doses per person in the country. In 1954 antibiotic preparations, at 6 per cent. of the total, cost 20 per cent. of the drug bill, but in 1956 that had risen to 6.7 per cent., costing 22.7 per cent. of the bill. MR. H. NOBLE (secretary, Central National Health Service (Chemist Contractors) Committee and the National Pharmaceutical Union) appealed to doctors to use official names so far as possible, especially for the new cortisone, prednisone and prednisolone range. The new charges had given rise to an average drop of 20 per cent. in prescriptions throughout the country. A 63 per cent. drop had been reported from one area and the industrial areas appeared to be the worst hit. That apparent saving to the Treasury was partly offset by the prescribing of increased quantities and the Minister had said that up to three months' supply of medicine was not regarded as too unreasonable. Mr. Noble felt that that statement had been based on financial rather than medical grounds. Whilst the average cost per prescription had risen from approximately 3s. in 1949 to approximately 5s.

in 1956, the latter figure would work out at approximately 3s. 6d. if the depreciation of money values were taken into account.

PORTSMOUTH

Radioisotopes Discussed

THE preparation and properties of the commoner radioisotopes, several of which were of great value in medical research and diagnosis, were described by DR. J. E. PAGE (research staff, Glaxo Laboratories, Ltd.) at a recent meeting of Portsmouth Branch of the Pharmaceutical Society. Although many radioisotopes could be prepared in the atomic pile, others were made in a cyclotron. Dr. Page referred to the preparation of radioactive penicillin and said that certain proteins and amino acids labelled with radioactive carbon 14 were now available "off the shelf." Vitamin B₁₂ could now be rendered radioactive and its progress followed through the body with the certain knowledge that it was the vitamin B₁₂ which was being followed. By the use of that fact a clinical diagnosis could be obtained in, for instance, pernicious anaemia. Radioactive iodine was of particular value in understanding thyroid metabolism, and in diagnosing thyroid disorders. In diagnosis, radioactive isotopes were taken up by certain organs or bodies, and that was used in determining the size and shape of masses or tumours. One main value of radioactive isotopes was in indicating "the dynamic nature of the working of the body, where cells were continually being broken down." That showed that some parts of the body were periodically renewed. Though their use in therapy was rather limited radioactive isotopes in high level activity could indicate and destroy carcinoma of the thyroid, but not without some risk to the patient. Among the guests of the Branch were Dr. T. E. Roberts (medical officer of health, Portsmouth) and representatives of medical and nursing organisations in the city.

WESTERN LONDON

"Pharmaceutical Alphabet"

MR. A. ALDINGTON (chairman, National Pharmaceutical Union) added his organisation's initials to those of C.F., B.P. and others when he gave the opening talk for 1957 to the Western Pharmacists' Association recently. His subject was "The Pharmaceutical Alphabet." The N.P.U. existed to look after the business interests of the pharmacist. Within three hours of the announcement of the shilling per item levy a letter of protest was on its way to the Chancellor of the Exchequer. The Chemists Defence Association was the N.P.U.'s greatest asset and the best of its type in the world.

On February 6 an elimination debate was held, the visiting branches taking part being Hendon and Edgware, Wembley, West Middlesex, Harrow, South-western and North London. The teams consisted of three speakers from each Branch. Each speaker was given not more than two minutes to speak either for or against the motion, the meeting voting for the best two



BRANCH OFFICERS AND GUESTS: Group photographed at annual dance of the Hounslow Branch of the Pharmaceutical Society held recently at Hounslow. Front row: Mrs. W. J. Rimer; Mrs. and Councillor R. G. Dunnett (mayoress and mayor of Heston and Isleworth); Mrs. M. Jackson; Mrs. J. Theobald. Second row: Messrs. M. Jackson (a member of Council of the Pharmaceutical Society); W. J. Rimer (Branch chairman); L. W. West (social secretary); and S. G. Davis (general secretary). At rear: Mr. W. Waterman (treasurer) and Alderman J. Theobald. During the evening Miss Williams and Mrs. Channing presented bouquets to the mayoress and Mrs. Jackson.

speeches. In the semi-final the motion confronting the contestants was "That now that the Pharmaceutical Society has a Films Committee and a History of Pharmacy Committee the time is ripe for the Society to produce an historical

drama." Entering the final round to debate the motion "That the apprentice master learns more from his pupil than the pupil does from him" were Messrs. Neville Brown (South-western), Thomson (Hendon), T. R. Cox (West

London). The speakers were agreed that there was much to be learned on both sides and that discussion of day-to-day problems would stimulate ideas. Mr. R. Cox (West London) was adjudged the winner.

PHARMACIES OF BRITAIN—55



A FAMOUS NORTHERN PHARMACY

The pharmacy of Hunters, Wallgate, Wigan, notable for its bow windows and fine door, was established in 1800. The superb lamp on its ornamental bracket is Victorian. An engraved fanlight still bears the name of a previous owner: "KelleTT, dispensing chemist by examination."

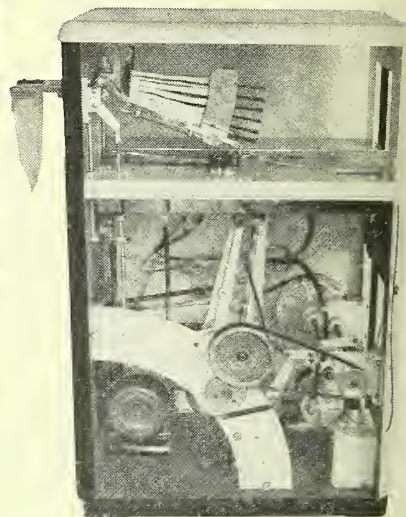
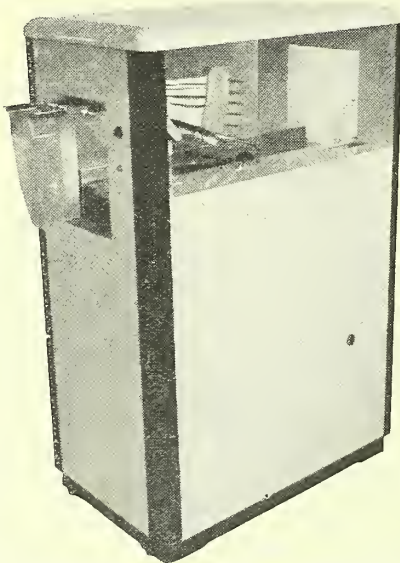
MACHINERY AND PLANT NOTES

Dies For All Tablet Machines.—Manesty Machines, Ltd., 5 Evans Road, Speke, Liverpool, 19, manufacture punches and dies in tool steel and phosphor bronze and insert dies in tungsten carbide for their own and all other tablet machines. An illustrated leaflet is available from the company.

Freeze-drying Plant for Portugal.—Recently an Edwards centrifugal freeze-drying plant, intended for use by the Laboratorio Central de Patalogia Veterinaria, Lisbon, Portugal, was sent out by air. Manufactured by Edwards High Vacuum, Ltd., Manor Royal, Crawley, Sussex, it is being installed to provide dried vaccines for preventing the further spread among sheep of the disease known as blue tongue.

Ten-ton Laboratory Presses.—A range of hydraulic laboratory presses, for which one suggested use is in the extraction of active principles from plants and drugs, is available from Apex Construction, Ltd., 15 Soho Square, London, W.1. The presses have been introduced to a variety of manufacturing problems to be simply solved, and have been standardised so that the price may be kept moderate. An 8-p. illustrated descriptive catalogue is available from the manufacturers.

Aid to Pakistan.—Under an American aid scheme, R. Powley & Sons, Ltd., St. Mark's Road, Sunderland, recently sent out to Pakistan two of their Spartan hydro bottle washing machines with slat conveyors and oil-fired boilers. One of the machines, with the International Co-operation Administration emblem attached, is illustrated. The machine has an hourly output of up to 180 doz. bottles, the heating being provided by an oil-fired circulating boiler. It is fitted with the company's label filtration system, and arranged for hand feed and automatic discharge on to a slat conveyor. During recent years, the company has exported more than 50 per cent. of its machines to not less than twenty-five different countries.



Machine for opening and feeding polythene bags. Left, complete and, right, with front removed to illustrate the mechanism (Autopack, Ltd.).

Polythene Bag-opening Machine.—

A machine to open and feed polythene (or paper) bags has been made available by Autopack, Ltd., Cuffley, Potters Bar, Middlesex. Up to twenty bags (which must be of gusseted type) per minute can be fed into the machine, the speed being controlled by the speed of the weighing machine, if used, or the operator if hand-filled. Each machine may be operated as twin units, and one operator can attend several units. The machines are equipped with "No bag, no fill" devices, thus preventing any pile-up of bags should anything go wrong with the weighing process. Other specification details are: Weight, approximately 550 lb.; floor space (without conveyor or stacking attachment), 3 ft. 6 in. x 2 ft.; height (without weighing unit), 4 ft. 7 in. (with weighing unit, height according to type of machine used);

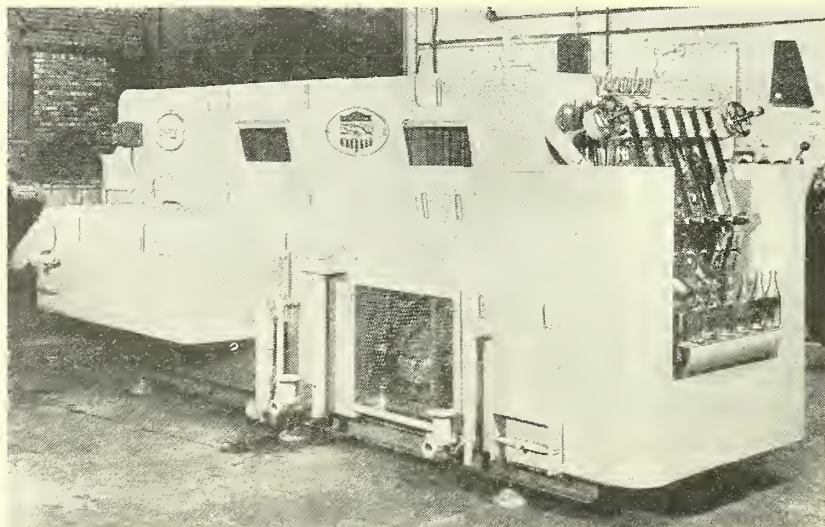
bag size: minimum 2½ x 5¼ in.; maximum, 5½ x 13 in.; magazine capacity, approximately 500 bags. All moving parts of the machine are fully enclosed so that there is no risk to the operator.

Apprentice-training Scheme.—To ensure a continuing supply of trained men of the right calibre, Birlec, Ltd., Tyburn Road, Erdington, Birmingham, 24, manufacturers of plant for air conditioning and process gas drying, have launched an ambitious new apprentice-training scheme. Over forty new apprentices have been recruited this year, bringing up the total strength to almost sixty, and a special training centre has been built, with four full-time instructors, two of whom have previously held lecturing appointments at the Birmingham College of Technology and National Foundry College, Wolverhampton. The scheme is expected to cost approximately £20,000 a year to run—a high figure for a company employing only 1,000 people. Situated about a quarter of a mile from the company's head office and works, the training centre occupies about 10,000 sq. ft. of floor space.

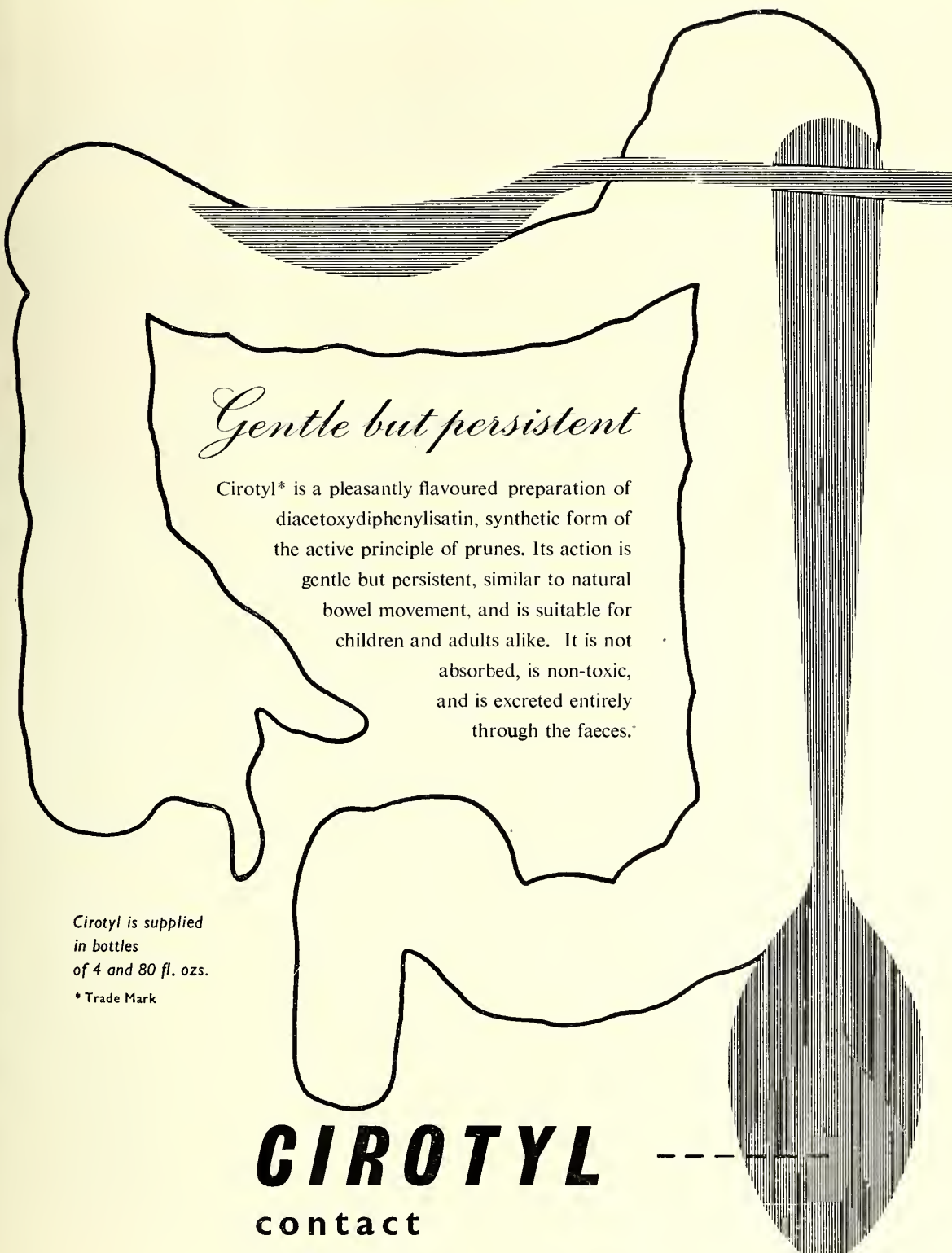
MATERIALS

Anti-corrosion Paint.—Allweather Paints, Ltd., 36, Great Queen Street, London, W.C.2, now offer an industrial Epikote-based paint that resists acids, alkalis, solvents, fatty acids, and abrasion. The paint has good properties of adhesion, flexibility and hardness and is easy to apply.

Tube Adhesive.—An adhesive that combines in a single tube the properties of glues, gums and pastes used for many different jobs in pharmacies is available in Evo-Stik Impact adhesive 528, one of a range of impact adhesives for specialised uses developed since the war by Evode, Ltd., Stafford. Until now, it has been only available in large cans for industrial and building uses.



Bottle-washing machine exported to Pakistan by R. Powley & Sons, Ltd., Sunderland.



Gentle but persistent

Cirotyl* is a pleasantly flavoured preparation of diacetyldiphenylisatin, synthetic form of the active principle of prunes. Its action is gentle but persistent, similar to natural bowel movement, and is suitable for children and adults alike. It is not absorbed, is non-toxic, and is excreted entirely through the faeces.

Cirotyl is supplied in bottles of 4 and 80 fl. ozs.

* Trade Mark

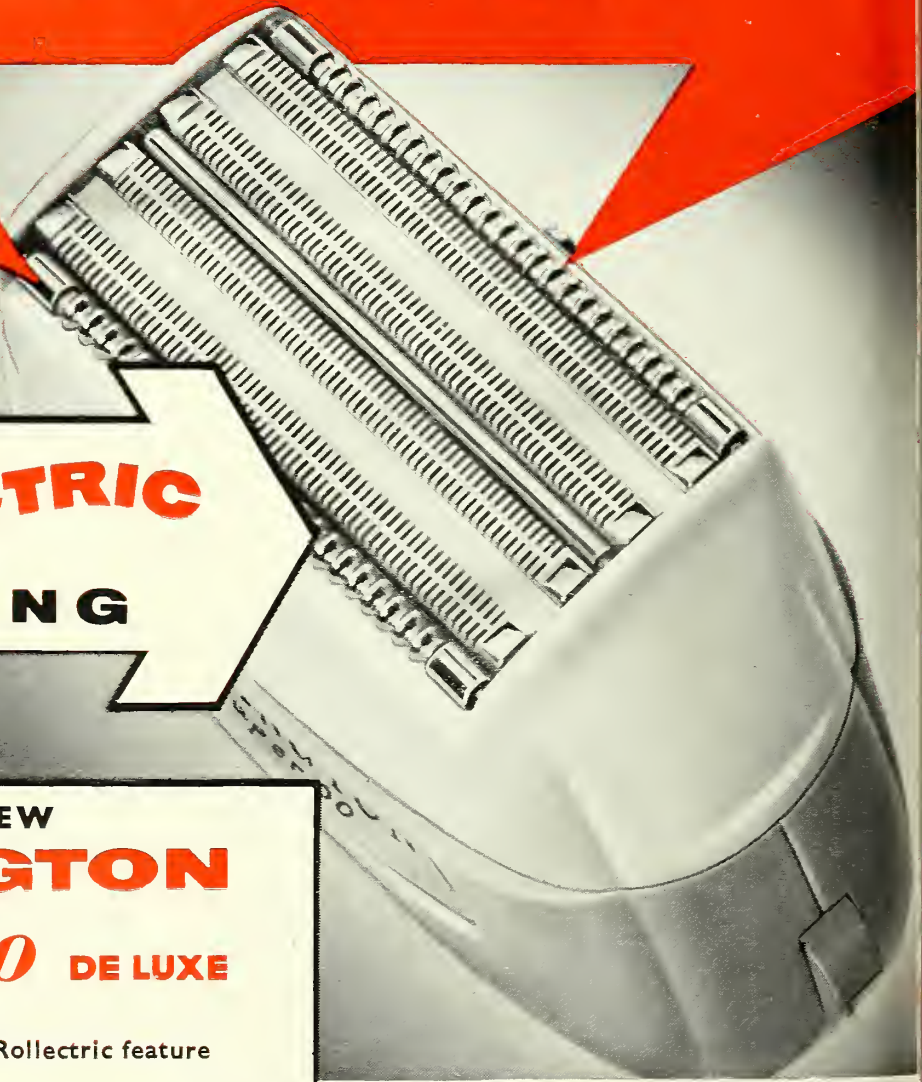
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in Existing prices

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to obtain maximum business from this new development

you obtain your Remington Super 60 models from a WHOLESALER


... has already been advised of this new introduction. Please wait until his representative contacts you. BUT . . . if he hasn't called by March 14th get in touch with your wholesaler at once, and arrange with him for your stock of Super 60 DE LUXE—in time to benefit from the extensive National advertising which commences on March 28th.

you obtain them direct from REMINGTON

Your existing stock of Super 60 models should be returned to the address below before March 28th, together with the special return form which is included in the descriptive booklet already sent to you. THIS FORM MUST BE USED FOR YOUR RETURNS—otherwise delay may be caused in dealing with your requirements.

COMPLETE DETAILS OF THE STOCK PROCEDURE UNDER BOTH 1 & 2 ABOVE HAVE BEEN DESPATCHED TO YOU BY POST. SHOULD YOU HAVE MISLAID THESE, A FURTHER COPY CAN BE OBTAINED FROM:

SALES PROMOTION DEPT.
REMINGTON RAND LTD.
SHAVER DIVISION,
26-40 KENSINGTON HIGH ST.,
LONDON, W.8



Whichever way you obtain your supplies, ALL your existing Super 60 stock will be replaced by the DE LUXE model—without cost to you. If your stock is low, you are urged—in your own interest—also to order adequate supplies of the DE LUXE model. Public demand for this sensational new advance by the acknowledged leaders is sure to be heavy—the introduction will be backed by an intensive REMINGTON advertising campaign.

REMINGTON
ROLLECTRIC
SHAVING
 means **BIG!**
 new business

With the continuously widening demand for electric shavers, this sensational new and exclusive Remington development will establish yet another record year for the market's leading model. Commencing March 28th, a launching campaign will feature

126,000,000 PRESS ADVERTISEMENTS!
A 13,000,000 AUDIENCE IN 850 CINEMAS!
 in the initial introduction stage alone.

You can establish your store as the local stockist, and profit from the start, by featuring the free display material which has been specially prepared to link-up with this vast National campaign. AND—between 28th March and 28th May—where Remington co-operative advertisements are used, you will be reimbursed

TWO THIRDS
 the cost of space
 you take
 in local papers

Make sure you are all set, by March 28th, to join with REMINGTON in another record sales year.

... the ROLLECTRIC feature, the latest development by Remington research technicians, constitutes the greatest new contribution in the advance of even smoother, faster, and closer electric shaving. Each new, exclusive Remington introduction has produced ever-increasing business for our stockists: a policy of progress and leadership which between 1948 and 1956 has established

A SALES INCREASE OF
2,390%
 in Remington Shaver sales in Great Britain. With your co-operation, and consistently heavy publicity, this successful trend will be still further accelerated in 1957.

The
analgesic
that is
different

... and
the
safe nasal
decongestant

PANADOL

Trade mark

Tablets, 0.5g. N-acetyl-p-amino-phenol, in cartons of 20, bottles of 100 and 500.

NEOPHRYN

Trade mark

Sympathomimetic amine as drops (0.25%) in $\frac{1}{2}$ oz. bottle, or fine spray (0.5%). Also available with antihistamine.

BAYER PRODUCTS LIMITED,

NEVILLE HOUSE · KINGSTON-ON-THAMES · SURREY

Associated Exporting Company: WINTHROP PRODUCTS LIMITED.



The
CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Early to Roost ?

It looks as though the educational chickens hatched by the Pharmaceutical Society's Council are already beginning to come home to roost. Members of the Society will not need to be reminded that the Council's expressed belief and hope is that eventually every entrant to pharmacy will approach it by way of a university degree. To be fair, they believe that a sufficiency of degree-holders will enter what is today called private retail pharmacy.

The lively fear of many of those members of the Society who are today engaged in that important and—from the point of view of the numbers engaged in it—principal branch of the craft has been that that policy would fail, in biological terms, to reproduce the species. So far, the Council has not given total effect to its underlying belief, but any intending entrant seeking advice at Bloomsbury Square is believed to have been recommended to take the degree rather than the diploma course.

At the February meeting of the Council (C. & D., February 16, p. 193), the chairman of the Education Committee gave the following figures relating to registrations with the Society as student and enrolment as first-year final students in pharmacy at universities:—

	Total registrations	DIP.	DEGREE		Combined first year Final students	" TOTAL INTAKE "
		First year Final	First year Final	Registered with P.S.		
1955					773	856 (?)
1956	777	563	264	85	827	956

The first significant feature of the figures is that 179 of the first-year degree students (264-85) did not register with the Society. It does not follow that those who have not registered will never register. Yet between "total intake" and "total registrations" is that ominous difference of 179, and it would appear that the point is being reached at which persons capable of keeping open shop as pharmacists are not reproducing their own numbers. The fears of those who disagreed with the direction of educational policy are thus being realised even earlier, perhaps, than they realised.

On the economic side the repercussions are serious and likely to become intensified. Ageing pharmacists with established businesses of substantial turnover have for some time been having difficulty in disposing of them to private owners. Many of those who do not sell out to multiples are having to find purchasers out-

side pharmacy, with the result that the number of pharmacies serving the community is declining. Fewer entrants to the profession will mean fewer purchasers even for those smaller businesses that suit especially the young man with little capital and his way to make. That is a disquieting prospect both for the future of the pharmaceutical service to the public and for the future of the private pharmacist as against the multiple. Members of the Society must ask themselves seriously whether they should allow their Council to pursue a policy that has those results.

A Question of Toxicity

THE proposed amendments to the Poisons List and Rules foreshadowed in the Home Office notice to the trade published in last week's issue (p. 175) include a proposal that seems to need amplification. The notice to the trade indicates an intention to relax all restrictions on the sale of antihistamine substances "specifically intended for the treatment of travel sickness." The relaxation proposed appears to be absolute, in the sense that such preparations are to be taken outside poisons legislation entirely, so as to be freely saleable at railway station kiosks, etc., or by any unqualified dealer. There is no reference to the particular antihistamines involved, apart from the statement that they are to be those which are "specifically intended" for that purpose. Pharmacists may well wonder how such a relaxation can be operated without undermining the control on antihistamine substances generally. Is it to be merely a matter of labelling or must the transaction depend upon the intentions of the purchaser? Does "the treatment of travel sickness" imply the prevention of travel sickness? Surely it must do so in those circumstances and, if so, what control remains on the sale of antihistamine substances? Will a pharmacist be liable for selling without prescription an antihistamine for relieving the nausea of pregnancy while the unqualified dealer may sell the same substance for travel sickness quite freely?

Relaxations that are founded upon the usage of the poison sold have been with us since the introduction of the Poisons Rules, but in all cases the form in which the poison is sold has been such as to make the usage unquestionable or, at any rate, subject to a minimum limit, so as to make the form in which it is sold appropriate to the usage. In relation to the antihistamines, for instance, previous relaxations have exempted preparations intended for external application only and preparations containing not more than 1 per cent. for application to the nose or eye. The Third Schedule comprises a series of similar exemptions, but to exempt a substance as used for one particular purpose in the same form as used for other medicinal purposes puts an impossible burden on the pharmacist unless the terms of the exemption specify precisely which substances are subject to the relaxation, and also specify the circumstances of sale to be observed (i.e., the form of label, quantity to be sold, conditions to be observed by purchaser, etc.). Even in those circumstances the reason for including those substances in the Poisons List at all comes into question. It was understood that one of the main reasons for having them included was that they caused drowsiness, and that that side-effect was a serious problem when those drugs were taken by motorists or persons engaged in public transport. If

experience has shown that the dangers in that respect were overestimated, it would seem appropriate to consider whether certain antihistamines might now be taken out of the Poisons List. But, with all due respect to the Poisons Board, a relaxation that depends upon the purpose for which a medicine is to be taken makes nonsense of poisons legislation.

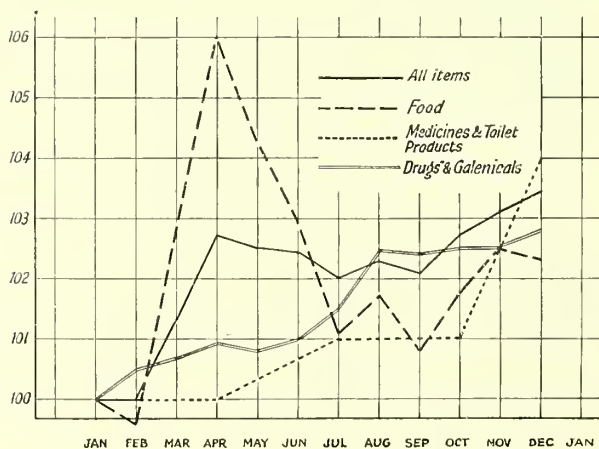
Wider of the Mark than Ever

THE pharmaceutical estimates for 1956-57 have proved further away from actual cost figures than even in previous years. In darts parlance they were not even on the board. The English estimate (see *C. & D.*, February 16, p. 176) has had to be raised by 19 per cent., the Welsh by 15 per cent., and the Scottish by 6 per cent. Because of the new shilling levy on prescriptions, the actual sums demanded are, for England and Wales 2 per cent., and for Scotland 1 per cent. less than those percentage increases, and the recent remuneration award to chemist contractors in England and Wales must account for about a sixth of the increase demanded. Taking those factors into account the percentage increases in the original English and Welsh estimates become 14 per cent. and 11 per cent. respectively.

Those are substantial percentage increases by any reckoning. Even the 1955-56 estimates were received by us with considerable scepticism. When, later, we made criticisms of the supplementary estimates, which were in fact less than those of this year (the English 6 per cent. up; the Welsh 8 per cent. up and the Scottish unchanged) we commented that such inaccurate forecasting, from irrational and even unintelligent premises, attracted unfair criticism upon the pharmaceutical service. Much of the criticism, instead of being directed against the alleged extravagance of those engaged in the service, should have attached itself to the people who were responsible for the drawing up of the estimates.

How Prices Moved in 1956

WITH the current tendency for prices to rise, the retail price index has recently been receiving rather more than its normal share of attention, particularly by those concerned with wage rates that are linked to the index. What can be learned of the trend of drug prices compared with other prices during 1956?



It will be seen from the graph we have prepared that high food prices were mainly responsible for hoisting

the retail price index during the first half of the year. Medicines and toilet products (the group includes also soap, other cleaning materials, matches, etc.) showed great stability until the spring, when a slight rise took place. With the summer, prices within the group became stabilised again and not until November did they suddenly shoot up. By then, many manufacturers of medicines and perfumery products were no doubt unable to absorb the higher labour and other costs that had been mounting during the previous months. Afterwards there was to come the higher tax on fuel oils and rationing, so that the upward trend continued.

The prices of drugs and galenicals showed a similar trend though at a somewhat higher level. The two groups linked up—interestingly at a common level with food as well—in November. Since November 1956 food prices have fallen a little, while drugs and galenicals have risen slightly, medicines and toilet preparations rather steeply.

When the Customer Wants to Pay

BLACKBURN Executive Council (p. 201) has been discussing what the chemist should do when the patient wishes to pay for an EC10 item that costs less than a shilling. A pharmacist present at the meeting suggested that a chemist contractor could hardly be expected to enter into a controversy with a patient about the cost of items, and a doctor thought that the chemist might be liable to disciplinary action if he deleted the item. The Council's clerk said that no instruction had been received from the Ministry on the matter, and the chairman said it was "a difficult problem." Whereupon the Council decided to set up a committee, whose task will be to investigate such aspects of prescribing and dispensing.

In point of fact the Central N.H.S. (Chemist Contractors) Committee issued an instruction to chemists in November 1956 that items for which the customer wishes to pay should be deleted from the prescription form and marked N/S. Ingredient cost, dispensing fee and oncost plus container allowance should be included in the price quoted to the customer.

So far as we are aware the Ministry has not countermanded that instruction, which it must be assumed, therefore, has met with official approval. Is it not high time, however, that the Ministry brought out a clear consolidated and indexed guide to contractors in handling the practical difficult problems of operating the new levy?

FIFTY YEARS AGO

A SUMMER SPECIALITY

From the *C. & D.*, February 23, 1907

"FATHER Neptune's safe floats" are more or less a summer speciality, and meant particularly for those who are learning to swim or float during the period of their seaside vacation. They had a great vogue during the hot weather of last year, and chemists who have not already done so ought to see that their stocks of Father Neptune's own speciality, as made by Messrs. F. Schutze & Co., 89 Southwark Street, London, S.E., are adequate for this year's demand. The floats are free from indiarubber and will last for years; moreover, Messrs. Schutze emphasise the fact that the float is not a toy, but a real natatory aid to both adult and child. With the floats Messrs. Schutze are sending out a calendar, the main idea of which is to impress upon the public mind in a humorous manner the value of the Father Neptune's safe floats. The price is 1s. 6d. per pair of floats, and waterproof cases, costing 3d. and 6d. each, may be had for carrying them when wet.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Progress?

SIR,—From apprenticeship to affluence was the aim of all and the destiny of most of our old-time pharmacists. Then came cut prices, shoddy goods, cheap lines, and "loss leaders" of the early days of the multiples. Professionalism was short-circuited and ethics ignored. Today pseudo-scientific displays of laboratory apparatus, beautiful specie jars and coloured carboys are being used to give the public an impression of professional skill but behind them are still often carried on "penny-come-quick" practices, and doubtful sales schemes are supposed to supply the necessary surplus to enable pharmacists to pay their way as contractors for the nation's dispensing.

D. J.

Pioneer Work on Aerosols

SIR,—Your interesting article on Aerosols (*C. & D.*, February 2, p. 120) has one serious omission. There is no mention of Airwick, Ltd., or Airkem, Ltd., who, through their associates, Airkem, Inc., New York, U.S.A., pioneered much of the work in the development of aerosols in the United Kingdom in association with the other companies mentioned in the article, namely the Metal Box Co., Ltd., Cooper, McDougall & Robertson, Ltd., and Walter Gregory, Ltd. The Airwick Group were investigating the aerosol situation as early as August 1949, and their air freshener, Air-wick mist, was first marketed in 1951, distribution being restricted to hospitals and industrial outlets. Although 6-oz. Air-wick mist aerosols were first marketed in the latter part of 1952 in both home and export markets, many of the trials and tribulations that befall pioneers were experienced by Airwick, Ltd., and their insistence on quality delayed the company from marketing Air-wick mist on a larger scale for many years. The Group was entirely responsible for bringing the Precision valve to the United Kingdom, the first supplies being imported from France by Airkem, Ltd., in September 1953. That, in turn, led to the development of the now generally accepted designs of aluminium impact-extruded containers designed to take valves fitted with a 1-in. diameter mounting cup and, eventually, the tinplate containers with soldered side seams manufactured by the Metal Box Co. since the early part of 1955. The United Kingdom tinplate containers compare unfavourably with the drawn steel aerosols of the U.S.A. which, owing to the absence of a soldered side seam, permit an overall lithographed design. Impact-extruded aluminium containers of attractive design are, of course, available, but their susceptibility to corrosion limits the types of products that can be packed, and they are more expensive than tinplate containers. The major limiting factor in aerosol packaging is high costs, and although manufacturers, by improved production tech-

niques, have gradually reduced the cost of containers and valves to a more economic level, that enterprise has not been matched by a comparable reduction in the price of propellants, which forms the largest item in the cost of the finished aerosol. Consequently, United Kingdom aerosols are invariably in an unfavourable position when meeting American or European competition in overseas markets.

AIRWICK, LTD.

Slough W. R. BOWDEN, *Director*

The Society's Fellowship

SIR,—In your editorial article "Acknowledging and Encouraging Research" (*C. & D.*, February 16, p. 187) you have usefully drawn attention to faults and inadequacies in the amended by-laws governing the designation of Fellows which the Society's Council proposes soon to adopt. The status of the highest distinction the Society can confer for the advancement of pharmaceutical knowledge ought surely to reflect both the dignity of the profession and the attainment of the summit in scientific or technological achievement in the pharmaceutical field. The Fellowship must be "twice blessed," reflecting credit on recipient and on donor. At some future time it must emerge successfully from the test of history as an honour whose existence contributed notably to the advancement and elevation of the calling. How far do the proposed by-laws go in ensuring that the Fellowship is appropriate only to that rare combination of quality of mind and scientific achievement which merits special distinction by the Society? Not far enough. If the explanations in the editorial article in the Society's official journal truly represent the Council's views, the proposals cannot but lead to difficulties and dangers which ought to occupy the Council during what remain of "the sixty days." The main faults—some of them you have mentioned—are, I think, these:—

1. The Council has not described clearly enough what type of member it has in mind for designating as Fellow (the suspicion arises that the Council itself is not clear on the matter).

2. Despite that deficiency, the Council is proposing to give itself wide and loosely defined powers for the creation of Fellows.

3. No proper provision has been made to ensure that the kind of person designated will not change with changing Councils.

4. An attempt is being made suddenly to widen the meaning of the term "pharmaceutical knowledge" with respect to the F.P.S. so as to include topics so vague as "professional aspects" of pharmacy. Such lack of definition may lead easily and innocently, with changing circumstances, to a devaluation rather than to a hoped-for raising of the Fellowship's standing.

5. Designation as F.P.S. should be, so far as possible, a unique honour and as you have suggested, not merely a

sort of rubber-stamping of Ph.D. theses.

6. The sixth fault affects only a small and dwindling proportion of pharmacists, myself among them. It is that the introduction of a basis other than scientific for the designation of Fellows may prejudice holders of the old Ph.C. diploma, especially those whose livelihood is connected with a one-time attainment of a particular technological proficiency. Former Pharmaceutical Chemists have exchanged their widely recognised description for an unknown one, and it is surely more than any Council can rightly do to change now the very categories of thought and knowledge with which the F.P.S. is becoming to be associated. For myself, I would strongly object to the F.P.S. being linked with work, no matter how distinguished, in vague non-technical studies.

The refreshing, if idealistic, innovation in the proposed by-laws that a chance will be given to any pharmacist to win his spurs does not detract from the seriousness of the faults that I have mentioned or from the urgency for dealing with them. If it is desired to recognise and encourage research in non-technological subjects, some of the present difficulties would, I suggest, be removed by devising a suitable form of distinction for it that does not involve the F.P.S.

London, N.W.3.

G. DILLEY

From Fag to Pharmacist

SIR,—A pharmacist for nearly fifty years, I was trained in days when apprentices were adaptable. They had to be. Any sort of job—dusting, sweeping floors, lighting fires, cleaning windows, washing dirty bottles—fell to their lot. A first-year apprentice was like a fag in the old public schools. Orders were taken from senior apprentices who tolerated no nonsense. In our second year we learnt to make infusions, decoctions, horse bails, pig powders, cattle medicines, etc. The third year was given over to stock mixtures, ointments, emulsions. Maybe we helped in an analysis of urine or possibly made up tinctures, extracts, pills and capsules. Only in the fourth and last year were we in the dispensary actually compounding, reading prescriptions, writing them out in copper-plate handwriting in massive leather-bound prescription books, meeting and talking to physicians and the public. We were entrusted to take turns on counter duties: quite an honour. That was usually followed by some years as an improver, often in a London West-end business, sometimes in a continental pharmacy, then to a college to read up our theory on chemistry, physics and botany, etc., before we eventually qualified. After such a training how could we help being adaptable? In the modern pharmacist's garb the frills seem more important than the foundation. Maybe there were faults in the "fag" system, but all worth-while careers are built on a good solid foundation.

RIP VAN WINKLE

PROGRESS AT PORTSMOUTH

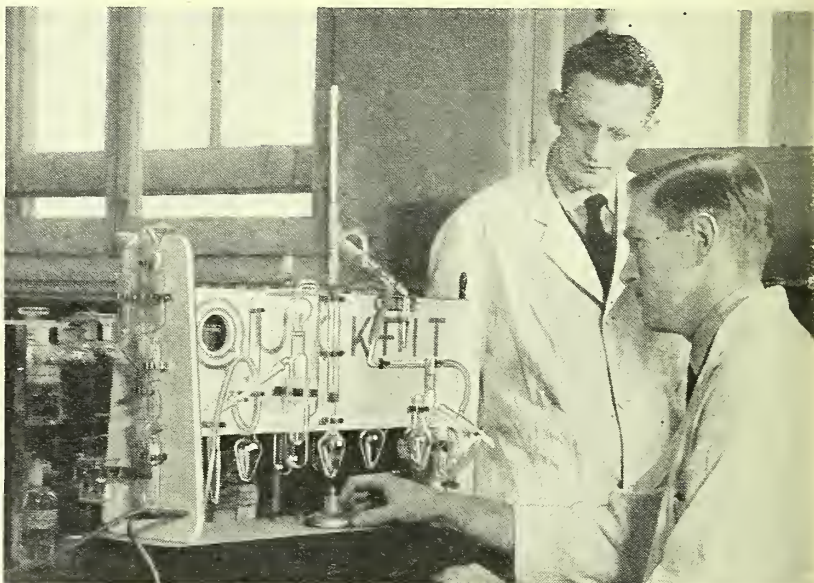
New laboratories for the Technical College's pharmacy department

SINCE the first of its courses in pharmacy was recognised by the Pharmaceutical Society in 1919, Portsmouth College of Technology has seen many changes in pharmaceutical education. Always it has been ready to meet raised standards and to broaden the scope of its work. Faced with a further possible revision of syllabus in the near future it has met the challenge in advance by setting up a new pharmaceutical chemistry laboratory, balance and preparation room; a new pharmaceuticals laboratory for microbiology and general pharmaceuticals; a reconstructed and re-equipped pharmacognosy laboratory; and a physical chemistry laboratory for the joint use of the chemistry and pharmacy departments. Add to that a teaching staff filled with enthusiasm for their work and many of whom are actively engaged on worth-while research and the reason for optimism about Portsmouth's place in pharmaceutical education is not difficult to see.

Taking a fatherly interest in the department on the appropriate college advisory committee is a former student, now a Portsmouth pharmacist and a member of the Society's Council: Mr. J. C. Bloomfield.

The head of the department (Mr. E. Thorpe) arrived at Portsmouth after fifteen years' service at Robert Gordon's College, Aberdeen. He came with a wealth of experience and a determination that his staff should be given an opportunity for something which the war years had denied him: research. Pharmacy today is a specialised discipline, and the benefit of an intimate concern with its scientific advancement adds depth and understanding to the daily task of lecturing and supervision. Students, too, find exemplified in the research work of their lecturers many of the text-book principles which, from theory alone, are often difficult to follow.

The following research projects are being carried out in the department:— By Mr. F. Perks (lecturer in pharmaceutical chemistry) for Ph.D. degree: "The Preparation of Synthetic Analogues of Cocaine, being Alcohols derived from Pyrrolidine" under Professor W. H. Linnell (University of London); by Mr. E. R. Matthews (senior lecturer) for Ph.D. degree: "Antidiuretic Principles in



Haphazard erection of apparatus by students is superseded by such set-ups as the workmanlike semi-micro portable laboratory shown. Mr. Stewart Hallett attends it, watched by Mr. David Richardson. Both are first-year diploma students.

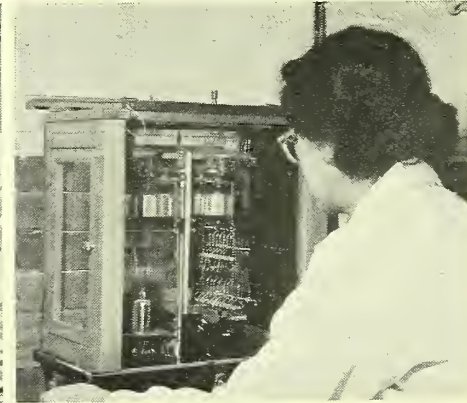
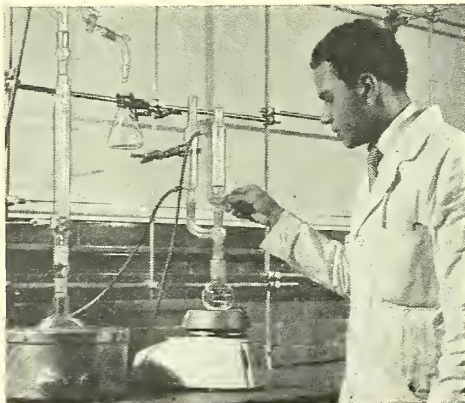
Human Blood and Urine," under Dr. E. J. Darmady (senior pathologist, Portsmouth and Isle of Wight Pathological Service); by Mr. H. Taylor (lecturer in pharmaceutical chemistry) for Ph.D. degree: "Derivatives of Pyrimidine of Pharmacological Interest," under Professor Chapman (University of Southampton).

Enthusiastic Staff

Preliminary work is also being carried out in connection with the following projects: By Mr. W. W. Binns (lecturer in pharmacognosy) for Ph.D. degree: "Pharmacognostical Study of Buckwheat (*Fagopyrum esculentum*) and Related Species"; by Mr. P. J. Watson (lecturer in physiology and pharmacology) for M.Sc. degree: "The Mode of Action of Local Anaesthetics"; for Ph.D. degree: "Endocrine and other Factors in Relation to Lactation."

It is perhaps typical of the Portsmouth tradition for improvement that the longest serving member of the staff (Mr. N. Francis, lecturer in pharmaceuticals) was the first to register as a student in 1922 when an *ad hoc* course for the pharmaceutical chemist diploma was arranged.

Without up-to-date facilities, of course, much of the benefit of an enthusiastic and capable staff would be negated, and it was with that in mind that plans culminating in the recent extensions to the department were made. The expansion was confined within the framework of the old College building so as to ensure that a minimum of the £4,000 available was dissipated in new fabric. The result is a new pharmaceutical chemistry laboratory with balance room and preparation room giving greatly improved facilities. Accommodation was made available also for a new pharmaceuticals laboratory,



Magnetic stirrer and hot-plate ensure ideal conditions for a reaction that proceeds under the control of Mehdi Jaffer (from Mombasa, Kenya). Miss L. Liu, Indonesia (right) uses an air-damped aperiodic automatic balance.

and the pharmacognosy laboratory, has been re-equipped.

Equipment has been steadily (but wisely) acquired during recent years, so that the department now boasts, in addition to the traditional equipment of a pharmacy department, a centrifugal freeze dryer, magnetic stirrer and hot-plate, spectrophotometer, air damped aperiodic automatic balance, and Quickfit semi-micro portable laboratory. By means of the semi-micro equipment—an organic laboratory in miniature—processes such as refluxing and distillation can be carried out with small quantities of material, drastically reducing the time involved in carrying out certain exercises.

With such an enlightened approach to the course it is little wonder that the reputation of the Portsmouth pharmacy department has spread, and that there has been a steady expansion through the years. By virtue of the latest development there is now ample accommodation for eighty students. At present there are thirty-four first-year and thirty-one second-year diploma students. A recent geographical "breakdown" of statistics revealed that 9 per cent. of students came from overseas and only eight per cent. were local to Portsmouth! Of the remaining students 43 per cent. were from the southern counties and 40 per cent. from the rest of Britain.

MEDICAL ABSTRACTS

NYSTATIN TREATMENT FOR VAGINITIS

OF fifty-three women with monilial vaginitis treated with a new vaginal pessary containing 100,000 units of an anti-fungal antibiotic derived from *Streptomyces noursei* (Nystatin), 88 per cent. were free from infection one week after treatment, whereas of thirty-six treated with gentian violet, only 47 per cent. were cured. Clinical investigation by Jennison and Llywelyn-Jones (*British Medical Journal*, 1957, 1, 145) was made of women who complained of a vaginal discharge and irritation and who were found bacteriologically to have candida infections. Treatment with Nystatin was found to be much simpler and did not have the disadvantage of staining linen as did gentian violet. As Nystatin acted mainly on fungi and yeasts and had little effect on bacteria, it meant that there was much less interference with the normal flora than was the case with gentian-violet treatment. In addition, out of a group of eighteen who had not responded to gentian-violet treatment, sixteen were cleared with Nystatin. No side-effects or local discomfort occurred with Nystatin.

RENAL FUNCTION AND HYPOTENSIVE DRUGS

THE fall in blood pressure brought about by the administration of hypotensive drugs is accompanied by either a decrease in the total peripheral resistance or a fall in cardiac output, or both. That readjustment of the circulation may lead to inadequate blood-flow through the essential circulations of the kidneys, heart or brain. In view of the fact that many patients with high blood-pressure are suffering from renal disease it is important to know whether renal function can really be improved by lowering the blood-pressure. McDonald and Goldberg (*Lancet*, 1956, 1, 77) report that in essential hypertension, maintenance therapy with oral pentapyrrolidinium bitartrate (Ansolsen) and reserpine produces no diminution in renal blood-flow. They conclude that in patients with initial renal impairment, simple clinical tests of renal function, especially the blood-urea level, are an adequate guide to progress. Abrahams and Wilson (*ibid*, 1957, 1, 68) describe the effects of ganglion-blocking agents, with or without reserpine, in patients with varying degrees of renal impairment. Reporting satisfactory reduction of blood-pressure without impairment of renal function (unless that was considerable initially) they emphasise the need for accurate diagnosis of the underlying renal disease. When renal disease had progressed to the stage of nitrogen retention, however, hypotensive therapy could lead to only a limited increase in the expectation of life. Commenting on the popularity of the hypotensive drugs, an editorial in the same issue states that "there can surely be no other treatment in which the target is so blurred, the aim so erratic, and the motive power so uncertain."

Onward from Galen

A CURRENT CAUSERIE

BORN at Troyes, France, one hundred years ago (on February 26, 1857), the French psychotherapist Coué worked for twenty-eight years as an apothecary before he opened his free clinic at Nancy. His famous formula: "Every day, and in every way, I am becoming better and better," swept the world like wildfire. He died on July 2, 1926. Not many today, perhaps, would adopt his optimistic slogan but there must be few who are not familiar with it.

★

PHARMACISTS who have been thinking that plants as a source of drugs are coming into their own again may be disappointed by an article in *Chemical and Engineering News*, January 21. The article suggests that, while the pharmaceutical industry will continue to look at both synthetic and natural sources for drugs, there will be a slow shift to synthetics. Pharmaceutical history, says the article, shows a long line of active agents, originally derived from Nature, but now produced synthetically—ephedrine, adrenaline and caffeine for example. Often attempts at synthesis are made almost as soon as the active agent is isolated; and in some fields—tranquillisers and steroids for example—synthesis is gaining a firm foothold. Over the next few years neither natural nor synthetic drug sources are expected by the writer of the article to get special emphasis. Industry will rather look to the most speedy source for the most needed biologically active substances.

★

THE "tools of the trade" of representatives of Parke, Davis & Co., Ltd., have been increased. They now carry a briefcase in one hand and a plastic container in the other. Into the plastic box they put soil samples as part of a world-wide collection campaign of which the object is to isolate new antibiotics. With a card indicating the exact spot where the sample was obtained, each container is returned to the antibiotics and mycology section of the company. There, by use of the same procedure as in developing Chloromycetin, cultures of micro-organisms are isolated in order to test their usefulness. More than 7,000 such samples have been returned since the new programme was launched, but three or four years may elapse from the time a soil sample is received before the possible introduction of an antibiotic takes place. About 1,300 Parke-Davis representatives are participating in the collection. It may be recalled that another American company enlisted the help of honorary volunteers in a similar collection of samples from all over the world.

★

AN electrical company in the United States claim that their scientists have produced the hardest substance ever made by man. It is a crystal hard enough to scratch a diamond and able to stand twice as much heat. Called Borazon it is expected to have a "far-reaching impact" in industrial polishing and cutting operations, they said. Dr. Robert H. Wentorf, a thirty-year-old physical chemist who is credited with its discovery, said he started with boron nitride, commonly called white graphite and very similar in look and feel to talcum powder. Using pressures above one million lb. to the square inch, he changed the crystals' structure from hexagonal, like graphite, to cubic, like a diamond. Borazon's resistance to oxidation, it is thought, will make possible superior methods of mounting stones in industrial tools and also may allow bits and wheels to be operated at higher speeds, performing their cutting and polishing jobs more quickly and efficiently. The Johannesburg diamond interests believe that the new substance offers no apparent threat to gem diamonds and though production costs are unknown they are unlikely to enable it to compete with industrial diamonds.

PHARMACEUTICAL SOCIETY OF IRELAND

Monthly meeting of Council

THE Council of the Pharmaceutical Society of Ireland is appealing to pharmacists throughout the Republic to support all pharmacists nominated for the Dail or Senate in the forthcoming general election. That was revealed at the monthly meeting of the Council held in Dublin on February 12, Mr. P. F. McGrath (president) in the chair. Present at the meeting were Messrs. M. Power (vice-president), H. P. Corrigan (treasurer), J. Gleeson, T. B. O'Sullivan, G. C. O'Neill, T. R. Miller, M. Costello, M. L. Cashman, C. J. Cremen, V. McElwee, P. Fullam, D. J. Kennelly, F. J. Robinson, J. P. Kissane, J. G. Coleman (registrar) and Miss L. Cunniffe. Apologies for absence were received from Messrs. J. J. O'Regan and A. A. Toher.

The Senate returning officer wrote asking for the Society's particulars in connection with the revision of the register of nominating bodies, and THE REGISTRAR reported that a reply had been sent.

Support for Candidates

ALDERMAN CASHMAN said that it was very important that anything the Society and members and licentiates could do to help the candidature of pharmacists nominated for the Dail or the Senate in the general election should be done. Apart from party affiliations no effort should be spared to get representation for pharmacy in the Dail. Any pharmacists nominated should have the full official support of the Society, and every assistance possible in the way of publicity in the pharmaceutical Press. THE PRESIDENT said he had intended to ask pharmacists throughout the country to give every assistance to members of their own profession going forward as candidates. In the last general election Mr. P. Brady had been given terrific support from the chemists in his own area. ALDERMAN CASHMAN said he thought a lead should come from the Council to encourage chemists to support their fellow-chemists in the campaign. THE PRESIDENT replied that that was what was intended: to give the lead from that meeting, and to have it published. ALDERMAN CASHMAN said that already three pharmacists had been nominated. THE PRESIDENT said he had in mind a general statement for issue to members asking for support for chemist-candidates, apart from party politics. Pharmacists realised only too well to their cost what it had meant not to have a pharmacist in the Dail or Senate during the past few years. What Alderman Cashman said would be published, and he felt that chemists would rally round as they had rallied round Mr. Brady in Dublin.

A communication from the Department of Industry and Commerce asking for views on the establishment of a European free trade area so far as it related to the Republic, was referred to the Irish Drug Association.

A letter was received from the chairman of the organising committee of the fourth Pan-American Congress of Pharmacy and Biochemistry, November 3-9, setting out the programme and inviting the Society to be represented by observers.

A communication from the chairman of *Symposium Internazionale sui Farmaci Psicotropi*, Milan, was noted.

The Council thanked the firm of Kevin A. Dowdall, Lad Lane, Dublin, for presenting copies of the *Journal of the American Pharmaceutical Association* to the College library.

Changes of Address

The following changes of address were notified:—

Mrs. Thelma Hall, L.P.S.I., to 234 Harold's Cross Road, Dublin; Mrs. Julia O'Doherty, L.P.S.I., to Bridge Street, Milltown, co. Kerry; Miss Ellen Mary Twomey, L.P.S.I., to 57 Collins Avenue, East, Killester, Dublin; Mr. Vincent Desmond Cronin, L.P.S.I., to 240 Merrion Road, Dublin; Mr. John P. Gallagher, M.P.S.I., to 34 Fortfield Park, Terenure, Dublin; Mr. Brendan F. Miney, M.P.S.I., to Main Street, Belturbet, co. Cavan; Mr. Joseph Kevin Shaughnessy, M.P.S.I., to 356 Collin's

Avenue Extension, Ballymun, Dublin; Mr. Patrick J. Salmon, L.P.S.I., to Enfield, co. Meath.

Mrs. Julia O'Doherty (*née* Sheahan), who submitted marriage certificate, was granted change of name in the register, Sheik Ebrahim Rajmohamed, Maidstone, Natal, who submitted an L.A.H. certificate, was granted registration as a pharmaceutical chemist, and preliminary registration was reported granted to Bosele Mannon Mosieman.

Examiners' Reports

The examiners' reports on the January examinations showed that twenty-one candidates had entered for Part I of the Licence examination, eleven passing; thirty-one for Part II, eight passing. All four who entered for the Assistants' examination had passed, but the one candidate who entered for the Registered Druggist examination had failed to pass.

THE REGISTRAR reported on the death of Mr. George Wadsworth Ellis, M.P.S.I.

The reports of the House, Schools, Law, British Pharmaceutical Codex and Post-graduate Committees were approved.

Professor Kenneth Bullock, Manchester University, was appointed external examiner in pharmaceuticals to the Second Professional examination.

A letter from Mrs. Marguerite Toomey (secretary, Irish Hospital Pharmacists' Association) reporting on the position of hospital pharmacies in the Republic, led to a lengthy discussion on the subject.

MR. P. O'BRIAIN (the Society's inspector) reported that many chemists were not clear that the new oral diabetic treatments were subject to special restrictions and should be sold only on the prescription of a registered medical practitioner.

The work of the Post-graduate Committee was referred to by THE PRESIDENT, who said the Committee and its chairman (Mr. Boyd) were to be congratulated on doing a good job of work. The lectures during the present course were well attended, and in running such courses so well the Committee was helping to raise to a high level the standard of training and knowledge of members. MR. KENNELLY (the Council's representative on the Committee) mentioned that a trial lecture was being prepared which could be used by local groups.

Students' Conference

THE PRESIDENT said that the forthcoming conference of the International Pharmaceutical Students' Federation (to be held in Ireland in September) was a big undertaking for the students responsible for the local arrangements. There was first the problem of finance: quite a large sum had to be raised to meet the expenses of running various functions. Recently, with Mr. O'Neill, he had had a meeting with the Irish Pharmaceutical Students' Association, Gaelic Athletic Club, and Chemists' and Students' Social Club foundation committee. Those bodies had agreed to support each other in running dances to raise funds, and he appealed to pharmacists all over the country, and to their assistants to support those efforts. It was a good thing to have another pharmaceutical conference in the country, but it was important that it should be as successful in its own way as the British Pharmaceutical Conference held in Dublin in September 1956 had been. Replying to MR. MILLER, the President said that at least £1,000 would be needed to defray all expenses. The Tourist Board had promised financial assistance, but the balance had to be raised by dances and subscriptions. Apart from the cost of accommodation, a dinner and dance and an excursion had to be financed. The Council agreed to give every assistance to the students in connection with the conference.

MR. O'NEILL drew attention to the latest issue of the *Bulletin* of the International Pharmaceutical Federation which he said contained an excellent and comprehensive report from Mr. Costello on the Fair Trade Commission and Court proceedings: Mr. Costello was to be congratulated on submitting such a fine report. THE PRESIDENT concurred with Mr. O'Neill's remarks and said Mr. Costello had given a great deal of time to the preparation of the report. In its final typing the office staff of the Irish Drug Association had provided valuable assistance.

The Licence certificates of Brendan J. Corcoran, Bernadette Curtin, and Bridget V. Fitzpatrick were signed and sealed.

Mrs. Kathleen Sarsfield and Messrs. Eugene Thomas Leonard and Patrick J. C. Lemasney were elected members of the Society. The following were nominated for membership: Mr. Vincent Desmond Cronin, 240 Merrion Road, Dublin; Mrs. Thelma Hall, 234 Harold's Cross Road, Dub-

lin; Mr. Thomas James Barrett, 19 The Parade, Kilkenny; Mrs. Julia O'Doherty, Bridge Street, Milltown, co. Kerry; Miss Ellen Mary Twomey, 57 Collins Avenue, Killester, Dublin; Miss Mary O'Donoghue, 3 Prince Edward's Place, Clonmel, co. Tipperary; Messrs. Myles O'Brien, 7 Grattan Street, Tipperary; Michael Joseph Moynihan, Hogan Square, Cashel, co. Tipperary; Andrew F. X. Dolan, Headford, co. Galway.

The Benevolent Fund Committee reported that £78 8s. had been received from the West of Ireland Chemists' Association and Westmeath Pharmaceutical Federation; it had been raised by a jointly organised dance at Athlone. A subscription of £5 5s. had also been received from the *Irish Chemist and Druggist*. THE PRESIDENT proposed that the thanks of the Society should be extended to those contributors for their generous donations to the Fund. Members were deeply indebted, said the president, to the organisers of the Athlone dance for such a magnificent cheque.

HOSPITAL PHARMACY FORUM

PLANNING THE DEPARTMENT

FEW occasions in a pharmacist's career are so stimulating and satisfying as the planning of a new department.

The responsibility is considerable, for not only will the planner have to live in the department he has planned, but so will his successors also, for many years ahead. Too often in the past inadequate provision has been made in hospitals for the pharmacy departments, and many suffer in consequence from cramped quarters in which it is impossible to provide and develop the service required by modern standards. Sometimes lack of funds prevented the old voluntary hospitals from maintaining suitable premises, but one suspects that, more often, ignorance of the real requirements was the prevailing factor. Many of the hospitals were staffed by general medical practitioners, whose notions of pharmacy were limited to the type of dispensing with which they were familiar in their own dispensaries. Their views unfortunately prevailed and, up to the time of the National Health Service in 1948, many of the smaller hospitals were still staffed by unqualified personnel.

New Departments Since 1948

Since 1948 there has developed in many areas a more enlightened attitude, and a number of new pharmacy departments, some to be highly commended, have been created. The time is approaching when not only new departments but new hospitals will have to be provided to replace many old and inconvenient ones at present in use. It is therefore timely that the Guild of Public Pharmacists has applied itself to the task of collecting information that may be of value to pharmacists faced with planning problems. First fruits of the committee's work were displayed at the Guild's recent Branch Delegates' meeting (*C. & D.*, February 2, p. 106), when plans and photographs of some of the more recent departments were set out for inspection.

The complexity of the pharmacy department grows with the size of the hospital and the degree to which it is intended to be "comprehensive" (i.e., whether manufacturing of galenicals, injection fluids and the like is to be undertaken). It is better, however, for the planner to think first of the minimum functions the department is to perform. Every department is engaged in dispensing medicines for patients. That is axiomatic. Therefore we begin with the dispensary. Its size will depend upon the volume of work it must accommodate. The relationship will not be linear but sigmoid. That is, there is a minimum below which even the smallest hospital cannot go and a maximum beyond which additional beds or out-patients make practically no difference. The number of personnel likely to be employed will be the best indication of the floor space necessary. That in turn will depend on whether out-patient dispensing

is to be undertaken, and how much of it there will be. A good measuring stick is to envisage a 10 ft. x 10 ft. domestic kitchen, and work up from that.

Having decided on the dispensary, a store room is the next necessity. In the majority of departments it can be assumed that the area available for storage should, for small hospitals, be about equal to that of the dispensary. As the size of the department grows, and laboratories are added, the storage space will also have to be increased. The point at which manufacturing becomes economic is not easy to define. Assuming that each hospital is independent (i.e., not drawing from a parent hospital in the group), some kind of preparation room or laboratory will be found necessary in a hospital of about 200 beds and without out-patient dispensing. If out-patient dispensing is also undertaken, the laboratory would be called for at a correspondingly lower number of beds. In all modern hospitals a separate room or closet is necessary for the preparation of sterile solutions, irrespective of whether those are aseptically prepared or sterilised by heating in the final container. According to the quantitative needs of the hospital, that preparation room may develop into a fully equipped laboratory with staff of three or four persons. A need that has been overlooked more often than any other is the provision of office facilities for the pharmacist. Apart from the necessary clerical work associated with ordering and stock-keeping, there is need for the filing of medical literature and correspondence, and for a suitable place in which to receive visitors to the department, whether they be medical staff or representatives of suppliers. It has never been claimed in pharmacy, as it is in some business houses and certain branches of the civil service, that the size of the room and the nature of the floor covering mark the degree of importance of its occupant. Indeed, the relationship is often inverse. Nevertheless it ill befits the importance of the work undertaken that conversations with the medical staff should take place within earshot of patients, porters, cleaners, or anyone else who happens to be about.

Only the Pharmacist State the Needs

So, with those basic requirements in mind, the lucky pharmacist can begin his pipe-dream, which may eventually materialise as a new department. One further word needs to be said: the pharmacist must be "in on" the consultations from the earliest stage, and must make known quite clearly what he needs. No-one else is capable of doing that for him, however well-intentioned they may be. And it is good advice that he will almost certainly need more space than he thinks. In the long run space-saving is not always money-saving.

A SUPPLEMENTARY TABLE OF ANTIBIOTICS

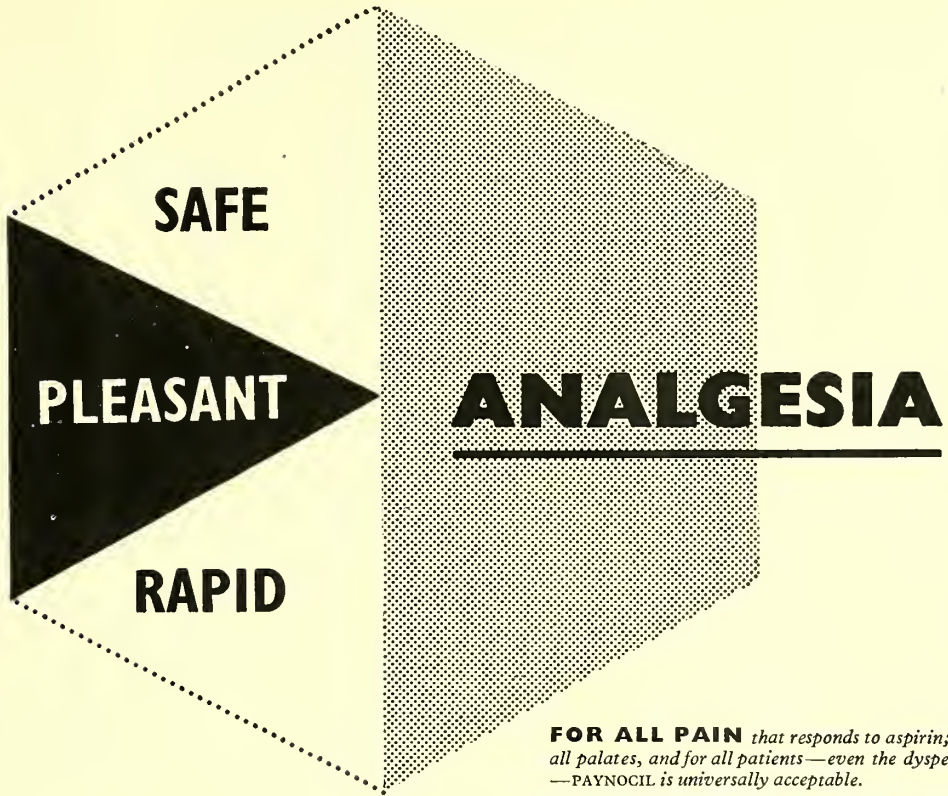
Bringing up to date the table given in the *C. & D. Diary and Year Book*, 1957, pp. 336-38d

OFFICIAL OR NON-PROPRIETARY NAME	TRADE NAME	PRESENTATION	INDICATIONS	NOTES
Neomycin	Polybactrin (Calmic)	Suspension of neomycin, 750 mgm.; polymyxin B, 150,000 units; zinc bacitracin, 37,500 units in 85 gm.	Prophylaxis during surgery, treatment of burns and infected skin conditions.	An aerosol spray pack, ensuring good and economical application and penetration, coupled with the absence of any vehicle.
	Hydeltracin (MSD)	Lotion of neomycin 0.5 per cent. with prednisolone 0.5 per cent. (15 mls).	Treatment of inflamed skin conditions complicated by secondary infection.	—
	Hydromycin (Boots)	Ear/eye drops of neomycin, 0.5 per cent. with hydrocortisone, 1.5 per cent.	Otitis externa, and the control of secondary infection in inflamed conditions of the eyes.	—
	Florinef with Graneodin (Squibb)	Lotion and ointment of neomycin, 2.5 mgm., gramicidin, 0.25 mgm.; fluorohydrocortisone, 1 mgm. per gm. (5 gm. and 15 mls).	Treatment of inflamed and infected skin conditions.	Should be applied sparingly. Some œdema and sodium retention has occurred in a few instances, probably associated with the high potency of fluorohydrocortisone.
Novobiocin	Biotexin (Glaxo)	Tablets of 125 mgm. (32 and 100) as sodium salt.	Main use is the treatment of staphylococcal infections caused by organisms resistant to other antibiotics. Streptococcal and pneumococcal organisms are also sensitive to novobiocin.	Acid in nature, like penicillin, but well absorbed orally, giving high blood levels. Side reactions are few, but allergic skin rashes have occurred with high doses. No cross-resistance with other antibiotics has yet been reported. Occasional yellow pigmentation of skin occurs, but of no significance.
	Novobiocin (Boots)	Tablets of 250 mgm. (16 and 100) as calcium salt.		
	Cathomycin (MSD)	Tablets of 250 mgm. (16) as sodium salt.		
	Albamycin (Upjohn)	Tablets of 250 mgm. (16 and 100) as sodium salt.		
Oleandomycin	Matromycin (Pfizer)	Capsules of 250 mgm. (12 and 100).	Treatment of pneumococcal and streptococcal infections of respiratory tract and middle ear; staphylococcal infections due to penicillin-resistant organisms; some urinary tract infections.	Has a range of activity similar to that of erythromycin. Not inactivated by gastric juice, and is well absorbed orally. No cross-resistance with the common antibiotics has yet been shown; development of resistance to oleandomycin very slow.
	Romicil (Roche)	Capsules of 100 mgm. and 250 mgm. as phosphate (12 and 100)		
	Sigmamycin (Pfizer)	Capsules of oleandomycin, 83 mgm. with tetracycline, 167 mgm.	Treatment of infections due to organisms sensitive to either constituent, particularly those resistant to other antibiotics.	—
Phenoxymethyl- penicillin Penicillin V	Penavlon V (ICI)	Tablets of 120 mgm. (15, 100 and 500).	Oral treatment of infections due to penicillin-sensitive organisms.	Calcium salt of penicillin V.
Polymyxin	Cortisporin (BW)	Ointment of polymyxin, 5000 units; bacitracin, 400 units; neomycin, 5 mgm.; hydrocortisone, 5 mgm. per gm. (10 gm.).	Treatment of inflamed and infected skin conditions due to a range of organisms. Also for eye and ear infections. Not recommended for herpes cornea.	Risks of bacterial resistance or skin sensitisation are negligible.
	Soframycin (R)	Ointment of 1.5 per cent. (15 gm.).	Treatment of infected skin conditions, particularly those due to staphylococci, <i>Proteus</i> and <i>Ps. pyocyanea</i> .	Most staphylococci appear to be sensitive to soframycin. The antibiotic, though water-soluble, is exceptionally stable, and no sensitisation has been reported.
Tyrothricin	Collozets (Cr)	Lozenges of tyrothricin, 1 mgm., with cetyledimethylammonium ethylsulphate (18).	Treatment of mouth and throat infections.	Quaternary ammonium compound is both an antiseptic, and has a solubilising action on the antibiotic.

ABBREVIATED NAMES OF MANUFACTURERS:—

Boots—Boots Pure Drug Co., Ltd.
 BW—Burroughs Wellcome & Co.
 Calmic—Calmic, Ltd.
 Cr—Crookes Laboratories, Ltd.
 Glaxo—Glaxo Laboratories, Ltd.

ICI—Imperial Chemical Industries (pharmaceutical division)
 MSD—Merck Sharp & Dohme, Ltd.
 R—Roussel Laboratories, Ltd.
 Squibb—E. R. Squibb & Sons
 Upjohn—Upjohn of England, Ltd.



FOR ALL PAIN that responds to aspirin; for all palates, and for all patients—even the dyspeptic—PAYNOCIL is universally acceptable.

FOR CHILDREN there is no pleasanter way of taking aspirin, and coaxing is seldom necessary. JUNIOR PAYNOCIL tablets contain just the right dose.

NON-IRRITANT—the aspirin particles are minutely and evenly spread over the gastric mucosa in a harmless and non-adherent form.

ACCEPTABLE—the flavour of Paynocil is remarkably pleasant and the presence of aspirin is unnoticed.

QUICK DISPERSING—the disintegration of Paynocil tablets on the tongue—without water—has been called “flash dispersal”. Chewing is unnecessary and swallowing effortless.

PAYNOCIL

EACH TABLET CONTAINS

Acetylsalicylic acid 10 grains

Aminoacetic acid 5 grains

PACKAGES in sealed foil strips:

Cartons of 18.

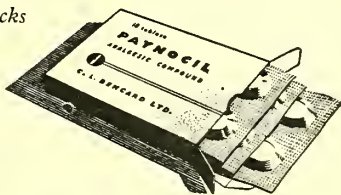
Dispensing packs

of 240: basic

N.H.S. cost

(tax free)

21/8d.



Junior PAYNOCIL

EACH TABLET CONTAINS

Acetylsalicylic acid 2½ grains

Aminoacetic acid 1¼ grains

PACKAGES in sealed foil strips:

Cartons of 20.

Dispensing packs of

240: basic N.H.S.

cost (tax free)

12/-.

PRICE

NOW

REDUCED



C. L. BENCARD LTD. PARK ROYAL, LONDON, N.W.10

A Sign of Discrimination

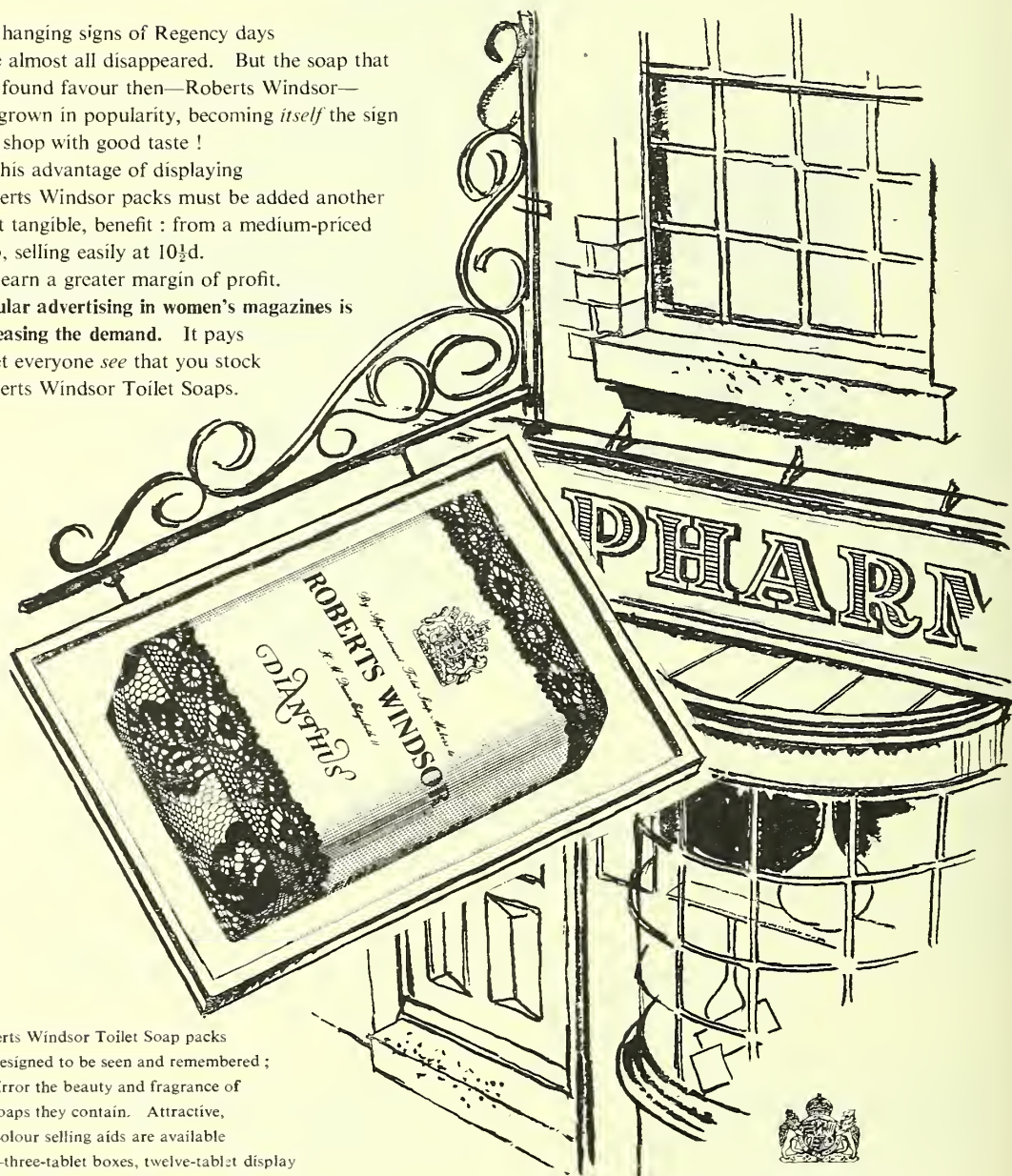
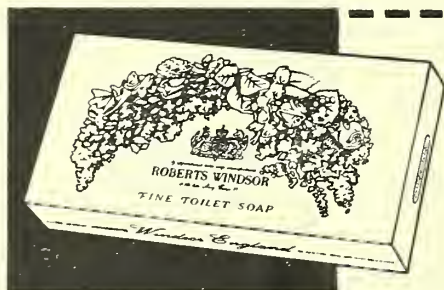
The hanging signs of Regency days have almost all disappeared. But the soap that first found favour then—Roberts Windsor—has grown in popularity, becoming *itself* the sign of a shop with good taste!

To this advantage of displaying Roberts Windsor packs must be added another most tangible, benefit: from a medium-priced soap, selling easily at 10½d.

you earn a greater margin of profit.

Regular advertising in women's magazines is increasing the demand. It pays to let everyone *see* that you stock Roberts Windsor Toilet Soaps.

Roberts Windsor Toilet Soap packs are designed to be seen and remembered; to mirror the beauty and fragrance of the soaps they contain. Attractive, full-colour selling aids are available too—three-tablet boxes, twelve-tablet display boxes, and Floral Basket dispensers.



By appointment to H.M. the Queen Mother.
Toilet Soap Makers.
Roberts Windsor Soap Co. Ltd.

ROBERTS WINDSOR

loveliest of toilet soaps

ROBERTS WINDSOR SOAP CO. LTD., THE ACRE, WINDSOR
and Victoria Soap Works, Colwick, Nottingham

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, FEBRUARY 20: Buyers in most sectors of the market, hoping for some easing in prices, restricted their purchases during the week to immediate requirements. The chief feature in PHARMACEUTICAL CHEMICALS was a reduction in the prices of IODIDES and IODINE preparations by certain manufacturers.

Confirmation that the changes had been adopted throughout the trade was not forthcoming but it was surmised that the price lists of the other manufacturers would be brought into line in the near future. POTASSIUM and SODIUM IODIDES show a reduction of elevenpence and a shilling per lb. respectively whilst RESUBLIMED IODINE is sixpence and IODOFORM threepence lower per lb. The prices of imported AMIDOPYRIN and PHENAZONE were increased by about 1s. 3d. per lb. Almost all the fine chemicals previously exempt from Key Industry Duty have been exempted for a further period of six months although an important exception is PIPERAZINE. Greater production of CITRIC ACID this summer is forecast by one of the leading manufacturers since the first stage of a £250,000 expansion scheme started last year and designed to increase his output by 70 per cent. has been completed ahead of schedule. The final stage is expected to be completed by March 1958 instead of January 1959.

Among INDUSTRIAL CHEMICALS, some producers of TITANIUM DIOXIDE increased their prices recently but others announced that it was their intention to make no changes for the time being. Meanwhile titanium metal has been lowered by about 10 per cent. by one of the largest producers in Great Britain.

In CRUDE DRUGS, price changes were of a minor character because of lack of demand. SPICES were extremely dull and many items were marked down by holders in the hope of attracting business. Mombasa CHILLIES were down by 30s. per cwt. whilst African GINGER was down five shillings. Whole MACE was one shilling per lb. lower and NUTMEGS sixpence per lb. down. PEPPERS were again lower by about one penny per lb. Tinnevely SENNA shipments from the port of Tuticorin during January were as follows:—

	U.K.		U.S.		Continent	
	Tons	Tons	Tons	Tons	Tons	Tons
SENNA LEAVES	6	81			90	
PODS	5	2			6	

Spot supplies of senna are becoming more difficult to find and several of the popular grades are now cleared. Whilst the shipment position of HONEY has held firm recently, the spot market has inclined to be easier because of the lack of demand from Germany. Some CINNAMON quills were dearer for shipment but others were cheaper. SHELLAC recorded a further drop with F.O.T.N. grade now at 250s. per cwt. against 290s. in the previous week. CARAWAY SEEDS were 5s. lower at 140s. per cwt.

In ESSENTIAL OILS, Chinese PEPPERMINT was sixpence per lb. lower on the spot and LEMONGRASS 1½d. down.

Pharmaceutical Chemicals

AMIDOPYRIN.—In 2-cwt. lots the price is now 24s. 8d. per lb.; 1-cwt., 25s.

AMYLOBARBITONE. — B.P.C. is 85s. per kilo for 50-kilo lots and SODIUM, B.P.C., 95s. per kilo.

BARBITONE. — Rate for 50-kilo lots is 42s. 9d. per kilo. The SODIUM derivative is 46s. per kilo.

BROMIDES.—Prices per lb. are now as follows:

	1-cwt.		5-cwt.	
	s.	d.	s.	d.
POTASSIUM	2	9	2	8
SODIUM	2	9	2	8
AMMONIUM	3	0½	2	11

The above prices are for packages (powder is 1½d. per lb. more), packages free, carriage paid terms.

BUTOBARBITONE. — B.P.C. is 110s. per kilo in 50-kilo lots.

CYCLOBARBITONE. — B.P.C. and CALCIUM SALT in 50-kilo lots are 82s. 6d. per kilo.

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots, 3s. 2d. per lb.; 1-ton, 2s. 11d.

EMETINE.—Price for 32-oz. lots of the HYDROCHLORIDE is 245s. per oz. The BISMUTH IODIDE is 115s. per oz.

GALLIC ACID.—B.P.C. is 8s. 7d. per lb. for 1-cwt. lots.

HEXOBARBITONE. — In 50-kilo lots the price is 110s. per kilo.

IODIDES. — Lower. Current quotations (per lb.) include the following:—

	28-lb.		1-cwt.		5-cwt.	
	s.	d.	s.	d.	s.	d.
POTASSIUM	10	3	9	9	9	4
SODIUM	14	1	13	2	12	9

IODINE.—Resublimed is 13s. 5d. per lb. in 1-cwt. lots, or 12s. 11d. in 5-cwt. lots. Minimum delivered rate for CRUDE is unchanged at 17s. 4d. per kilo.

IODOFORM.—Powder is 22s. 11d. per lb. in 28-lb. lots; 22s. 3d. in 1-cwt. and 21s. 8d. in 5-cwt. lots. Crystals are 3s. per lb. more than the powder.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm. as to quantity. Subject to D.D.A. regulations.

METHYL PHENOBARBITONE.—B.P. is 90s. per kilo in 50-kilo lots.

PAPAVERINE. — Synthetic HYDROCHLORIDE is 250s. per kilo.

PARALDEHYDE. — In 40-gall. drum lots the stabilised is 163s. per cwt. and the technical, 136s.

PETHIDINE HYDROCHLORIDE. — B.P. 100-gm. lots are now quoted at 100s. Subject to D.D.A. Regulations.

PHENAZONE. — In 2-cwt. lots imported material is quoted at 15s. 2d. per lb. with 1-cwt. at 15s. 4½d.

PHENOBARBITONE. — 50-kilo lots are 42s. 9d. per kilo and SODIUM, 46s.

SODIUM METABISULPHITE. — Granular in 1-ton lots is from £46 2s. 6d. to £50 7s. 6d. per ton according to packing.

SODIUM PHOSPHATE. — B.P. powder is 125s. per cwt.

SODIUM SULPHATE. — Makers' prices for B.P. range from £11 10s. to £18 17s. 6d.

per ton as to crystal and quantity, ex works.

SODIUM THIOSULPHATE.—Makers' price for 1-ton lots in paper-lined bags is £33 15s. per ton.

SULPHACETAMIDE. — Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM DERIVATIVE is 30s.

SULPHAGUANIDINE.—Manufacturers' rates for 1-cwt. lots are about 14s. 6d. per lb.

SULPHANILAMIDE.—Manufacturers' rates are from 7s. per lb.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 16s. 6d.

Industrial Chemicals

ACETALDEHYDE.—The 100 per cent. is £142 per ton.

ACETATES.—Prices (per cwt.) for drum lots are as follows:—AMYL (technical), 250s. and B.S.S., 252s. BUTYL (B.S. 551: 1950), 171s.; ETHYL (B.S. 553: 1950), 141s.; ISOPROPYL, 140s.

ACETONE.—One-ton lots are quoted at £90 per ton.

BENZOLE. — Thiophene-free is from 10s. 0½d. per gall. for one 50-gall. barrel and pure, 7s. 0½d. per gall. for similar lots.

N-BUTYL ALCOHOL.—One to 5-ton lots are quoted at £159 per ton and one-drum lots at £163 per ton. Secondary is £130.

CARBON TETRACHLORIDE, B.P.—1-2 carboy lots are £124 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £81 per ton; 1 ton and under 2 tons, £79 10s.; 2 tons and under 4 tons, £79; 4 tons and upwards, £78.

DIMETHYL ACETATE. — Drum lots are quoted at 163s. per cwt.

ISOPROPYL ALCOHOL.—Standard grade is £80 10s. per ton (5s. 7½d. per gall.) in 10-ton lots, Essence grade is from 17s. 6d. to 20s. 3d. per gall., as to quantity.

METHYL ETHYL KETONE. — One-ton lots in drums are quoted at £145 per ton.

METHYL ISOBUTYL CARBINOL. — One-ton lots (in one delivery) are now £165 per ton.

METHYL ISOBUTYL KETONE. — One-ton lots are £171 per ton with usual differentials for smaller quantities.

NAPHTHALENE. — Home market prices (per ton for 4-ton lots at one time) are as follows:—CRUDE WHIZZED, c.p. 74-77.5° C., £25 7s. 6d. to £30 17s. 6d., according to the crystallising point, ex works; HOT-PRESSED, minimum c.p. 77.6° C., £42 ex makers' works; CRYSTALS from £61 7s. 6d. to £63 17s. 6d., delivered; BALL AND FLAKE, £69 17s. 6d. to £72 8s. 6d. delivered. The approximate export prices (f.o.b.) for 25-ton lots are from £37 to £41 for the crude whizzed; £45 to £47 for hot-pressed, while crystals are £67 10s. and ball and flake both £76 per ton, including bags.

PHTHALATES.—Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s. 3d.; DIBUTYL, 2s. 1½d.; DI-ISOBUTYL, 1s. 11d.; DIETHYL (normal grade), 2s. 1d.; (perfumery grade), 2s. 6½d.; DIMETHYL, 1s. 10½d.

STEARATES. — Spot prices for minimum 1-ton lots are now as follows:—ALUMINIUM (all grades), 253s. per cwt.; CALCIUM (precipitated), 243s., LEAD (30 per cent.), 240s.; MAGNESIUM (standard), 271s. 6d. and (superfine), 301s. 6d.; ZINC, B.P., 285s. 6d.

TITANIUM DIOXIDE. — Anatase is from £154 per ton as to maker while rutile is from £164 to £172 according to grade.

Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* are 3s. 6d. per lb., duty paid.

AGAR.—*Kobé* is from 14s. to 16s. per lb., duty paid as to quality. Shipment 10s. 6d., c.i.f.

ALOES. — Extra prime for shipment is 335s. per cwt., c.i.f., and prime, 330s., c.i.f. Prime on the spot is 340s.

ANISEED (STAR).—Chinese is 130s. per cwt., c.i.f., for afloat, Spot nominal at 175s., duty paid.

ANTIMONY. — English 99.6 per cent. is £222 10s.; 99 per cent., £210 per ton.

BALSAMS.—Quotations (per lb.) are:—CANADA: Scarce, Spot value 30s. COPAIBA, 7s. 9d. to 11s., duty paid. PERU, 10s., duty paid. TOLU (genuine as imported), 26s.; B.P., 17s. 6d. spot.

BELLADONNA.—Herb is 2s. 6d. per lb. on the spot. ROOT, 1s. 10d. spot; shipment, 1s. 3d., c.i.f.

BENZOIN.—Sumatra block on the spot is from £25 to £30 per cwt. No. 1 for shipment is £23 5s., c.i.f. Almonds, 15s. per lb., c.i.f.

BUCHU.—Spot supplies are from 7s. 3d. to 7s. 6d. per lb. on the spot.

CAMPHOR. — B.P. POWDER is from 5s. 10d. per lb., duty paid. TABLETS, ¼-oz. are 5s. 10d., c.i.f. and 6s. 4½d. in bond, c.i.f.

CHILLIES.—Mombasa on the spot are 210s. per cwt., and 195s., c.i.f., for shipment.

CINCHONA. — Parcels of druggists' bark are available from 1s. 3½d. to 1s. 5d. per lb., according to total alkaloid content varying from 6.51 to 7.23 per cent.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 9s. 9d.; OOO, 9s. 3d.; OO, 8s. 11d.; O, 8s. 10d.; firsts, 7s. 4½d.; quillings 5s. 6d.; chips, 1s. 1½d. to 1s. 2½d.

CLOVES. — Zanzibar on the spot are quoted at 3s. 8d. per lb. Shipment, 2s. 4½d., c.i.f.

COCHINEAL. — Peruvian silver-grey is 14s. 6d. per lb.

COCILLANA.—Bark is 2s. 3d. per lb. on the spot.

DIGITALIS LEAF.—*Purpurea* is offered at 1s. 3d. per lb., c.i.f.

ERGOT. — Portuguese is 6s. per lb., c.i.f., for prompt shipment and 7s. 3d., spot. American, 7s. 3d., c.i.f.

GENTIAN. — French is 185s. per cwt., on the spot; Mediterranean, 165s.

GINGER. — African on the spot is 200s. per cwt. and February-April shipment, 190s., c.i.f. Jamaica No. 3 spot, 730s.; new-crop for February-March shipment is 600s., c.i.f. Cochin for February-March shipment is unchanged at 117s. 6d. per cwt.

GUM ACACIA. — Kordofan cleaned sorts are 160s. per cwt. on the spot, afloat, 140s., c.i.f.

HONEY. — Australian light-amber is 145s. to 146s. and medium-amber, 138s. to 142s. Argentine, 145s. to 147s. 6d.; Jamaican, 147s. 6d. to 152s. 6d., all per cwt., on the spot.

IPECACUANHA. — (Per lb.) Colombian, spot, 52s. 6d.; Matto Grosso, 46s. 6d., c.i.f. Nicaraguan, spot, 58s.; no shipment offers. Costa Rican, 56s., c.i.f.

MACE. — Whole on the spot is 26s. per lb.

MENTHOL.—Chinese. Spot is 53s. 6d. per lb., duty paid; afloat, from 49s. 6d. to 50s., c.i.f., as to position. Brazilian, spot, 42s. 6d., duty paid; shipment, 40s., c.i.f.

MERCURY. — Price per flask (76-lb.) is £84 10s. to £84 15s.

NUTMEGS. — West Indian 80's not quoted; sound unsorted, 15s. per lb.; wormy and broken, 10s.

ORANGE PEEL. — West Indian bitter quarters are 11d. to 1s. per lb.; Spanish 1s. to 1s. 3d.

PEPPER. — White Sarawak is 2s. 1½d. per lb. on the spot, with shipment at 2s. 1d., c.i.f. Black Sarawak is offering on the spot at 1s. 9d. per lb.; afloat, 1s. 8½d., c.i.f. Black Malabar, 225s. per cwt. on the spot; prompt shipment, 192s. 6d., c.i.f.

PIMENTO. — Spot is 590s. per cwt. with forward at 540s., f.o.b.

QUASSIA.—Chips are 42s. 6d. per cwt. on the spot, and 32s. 6d., c.i.f.

RHUBARB.—Quotations for Chinese are from 6s. 6d. to 9s. 3d. per lb., as to quality.

SAFFRON.—Mancha superior is 280s. to 290s. per lb., on the spot.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 9½d. per lb., and for shipment 2s. 8d., c.i.f.

SASSAFRAS.—Selected bark is 5s. per lb. on the spot.

SEEDS. (Per cwt.) — ANISE.—Cyprian, 175s.; Bulgarian, 165s., duty paid, both spot London. CARAWAY.—Dutch easier with sellers asking 140s., duty paid.

CELERY.—Indian, 215s., quoted on spot. CORIANDER. — Steady. Spot, Moroccan nominal at 95s.; Rumanian, 75s. and Bulgarian, 65s., all duty paid. Moroccan for shipment quoted at 61s. 6d., c.i.f. CUMIN.

—Quiet with prices unchanged. Spot, Cyprian, 135s.; Iranian, 132s. 6d., duty paid, Shipment Cyprian, 130s. and Iranian, 125s., c.i.f. DILL.—Indian in poor demand at 65s., spot. FENNEL.—Indian is still in short supply with 120s. quoted nominal spot. FENUGREEK. — Unchanged. Spot, Indian, 70s., and Moroccan, 68s. 6d., duty paid. MUSTARD.—English, 65s. to 85s. according to quality.

SENEGA.—Spot is 18s. 6d. per lb. with shippers asking 18s., c.i.f.

SENNA. — Wet-crop *Tinnevely* LEAVES (per lb.) are: Prime bold, 1s. 6d.; prime No. 1, 1s. 5d.; f.a.q. No. 3, 9d.; PODS, f.a.q., 9d., c.i.f.; hand-picked, 1s. 2d. to 2s. 3d. *Alexandrian* manufacturing pods, small lots available at 1s. 7½d. hand-picked scarce with only low to medium grades available.

SHELLAC. — F.O.T.N., 250s. per cwt.; F.O. No. 1, 260s.; fine orange, 285s. to 325s.

SLIPPERY ELM.—Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 57s. to 62s. 6d.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS.—*Kombé* on the spot is 6s. 6d. per lb. for the 100 per cent.; *Gratus* is 11s. 3d., in bond.

STYRAX. — Spot quotations are 6s. 6d. per lb.

TRAGACANTH.—No. 1 ribbon is £175 to £180 per cwt.; No. 2, £150.

TURMERIC.—Madras finger on the spot is 82s. 6d. per cwt. with new-crop, April-May shipment at 65s., c.i.f.

VALERIAN ROOT.—Indian on the spot is 140s. per cwt. Dutch for prompt shipment, 187s., c.i.f.

VANILLIN. — Rates (per lb.) are:—5-cwt. lots, 27s. 3d.; 1-cwt., 27s. 6d.; 56-lb., 27s. 9d.; smaller quantities, 28s.

WAXES. — (Per cwt.) BEES'—Dar-es-Salaam, shipment, 600s., c.i.f., spot, 625s.; Sudanese, 615s. duty paid and 540s., c.i.f. Abyssinian, spot, 580s., duty paid, afloat, 550s., c.i.f. CANDELLILLA.—Spot is 550s. CARNAUBA. — Fatty grey, spot, 535s. per cwt.; for shipment, 500s., c.i.f. Prime yellow, spot, 1,200s.; shipment, 1,080s. c.i.f.

WITCH HAZEL LEAVES. — Spot supplies are 2s. 3d. per lb.; prompt shipment, 2s. 1d., c.i.f.

Essential and Expressed Oils

BERGAMOT. — Spot supplies are from 75s. per lb. and shipment from 73s. to 74s. 6d. per lb., c.i.f.

CALAMUS.—Spot quotations are 62s. 6d. per lb.

CAMPHOR, WHITE. — Chinese is 2s. 4½d. per lb., duty paid.

CARAWAY. — English-distilled is offered at 55s. and imported from 28s. to 29s. per lb., duty paid.

CASSIA.—Spot quotations are nominally 13s. 6d. per lb. and shipment, 13s. 3d. c.i.f.

CITRONELLA.—Ceylon, spot, 6s. 4½d.; afloat, 6s. per lb.; January-February shipment, 5s. 10½d. c.i.f. Formosan afloat is 8s. 3d., c.i.f. spot, 9s. 6d. duty paid; Java sellers at 8s. 1½d., c.i.f.

CLOVE. — Madagascar leaf is 9s. per lb., duty paid and 7s. 6d., c.i.f. for shipment. Rectified B.P., 17s. 6d.; 87-88 per cent., 12s. Distilled bud oil, English, from 28s. 9d. to 35s. as to quantity.

CUMIN. — Quotations for English-distilled oil are about 102s. per lb. and imported 57s. 6d.

DILL.—B.P. English-distilled oil prices are nominal; imported from 36s. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 8d. per lb.; 80 to 85 per cent., 6s. 4d. Spanish 70 to 75 per cent. at 4s. 11d., duty paid. Portuguese 70 to 75 per cent., 4s. 4d., duty paid. Chinese type, 4s. 3d., duty paid.

FENNEL.—Spanish sweet on the spot is quoted at 12s. per lb. with Russian at 22s. 6d.

GARLIC.—English is 55s. per oz., spot. GRAPEFRUIT. — Floridan is 15s. per lb.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 25s. and 40s. per lb. Californian, 28s. 6d. to 36s. 4d., c.i.f., as to quality, subject to licence.

LEMONGRASS.—Spot is 9s. 10½d. per lb., and shipment, 9s. 9d., c.i.f.

LIME. — West Indian distilled is 45s. per lb. on the spot.

PATCHOULI. — Penang is 37s. 6d., duty paid, and 34s., c.i.f.

PEPPERMINT. — *Arvensis*: Chinese is 30s. 6d. per lb. on the spot and 28s. 6d., c.i.f. Brazilian, 20s., spot, and 19s., c.i.f. Formosan, 20s., c.i.f.; spot, 20s. 6d. Italian "Mitcham"-type oil on the spot is from 52s. 6d. to 65s.; American, 35s. to 42s. 6d. as to origin.

PETITGRAIN.—Paraguay, spot, 24s. 6d. to 26s. per lb., as to brand.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 25s.; Siberian (*abietis*), 12s. 6d. to 15s.

SAGE.—Spanish is from 9s. per lb. on the spot and Dalmatian, 30s.

SPEARMINT. — Offers of U.S.P. grade are from 32s. to 34s. per lb. on the spot.

VEITVERT.—Spot is currently at about 95s. per lb.

UNITED STATES REPORT

NEW YORK, FEBRUARY 19: Higher per lb. among CRUDE DRUGS were PODOPHYLLUM at 52 cents, up two cents; SENEGA at \$3, up five cents; and COPAIBA BALSAM at 60 cents, up five cents. Lower per lb. was AGAR, No. 1 *Kobé*, at \$2, down ten cents. DIGITALIS supplies were adequate to cover the moderate demands being made at present. Sweet ALMOND OIL moved up five cents on short supplies to \$1.45 per lb. Turkish GERANIUM OIL eased 25 cents to \$6.50 per lb.

WORLD TRADE

An Australian Chemical Plant.—A new plant to be built by the Sulphide Corporation at Cockle Creek, New South Wales, to produce zinc, sulphuric acid and superphosphates, will cost A£8 millions. It will help cater for Australia's industrial needs, increase her dollar earnings and provide employment for more than 500 men.

United States Chemical Programme.—Expenditure on domestic chemical construction by the United States chemical industry in 1957 and 1958 is expected to total about \$2,500 millions according to a recent survey. During 1956, 354 construction projects out of 760 surveyed were completed at a cost of more than \$1,100 millions. An additional 278 projects are under construction at an estimated cost of \$1,800 millions and a further 128 projects, requiring an expenditure of approximately \$717 millions, are planned. Altogether 327 companies are financing the projects covered by the survey.

West Germany and British Quotas.—In trade talks opening in Bonn on February 18, West Germany is pressing Britain to lower quota restrictions on certain West German goods. The talks are aimed mainly at fixing 1957 quotas for goods that have not yet been liberalised by either country. West Germany is seeking lower quota restrictions on, among other things, optical and precision goods and chemicals. The increased liberalisation adopted by West Germany in November 1956 left only a few British industrial products subject to quota restrictions. Agricultural quotas are roughly of the same amount on both sides.

Chinese Trade with West Germany.—West Germany may shortly send its first trade delegation to China in an effort to increase trade with that country. At present that trade is being conducted mainly through third countries. Exporters hope that a trade delegation to Peking may help to establish direct contacts. West German imports from China—including imports through third countries—rose to DM 205 millions in the first eleven months of 1956 from DM 193 millions in the whole of 1955. Over the same period exports to China increased to DM 140 millions from DM 110 millions. Germany supplied mainly chemicals and finished and semi-finished metal goods.

Scandinavian Common Market.—Scandinavia may have a common market in working order long before the projected European common market or the wider seventeen-nation free trade zone become facts. The Scandinavian countries have drawn up a scheme for abolishing trade barriers between them and setting up a common market by January 1959. Cabinet Ministers of Norway, Sweden, Denmark and Finland are now meeting in Helsinki to consider the plan, which provides for the abolition of trade barriers in three stages of two, four and four years. The western common market plan calls for an initial period lasting four to six years and a so-called transition period of fifteen to seventeen years.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," February 6
For projection screens and parts and fittings thereof (9)
PERLUX, 758,437, by Andrew Smith Harkness, Ltd., London, W.1.

For surgical, medical, dental and veterinary instruments and apparatus (10)
FLUOTHANE, 759,508, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For surgical, medical and veterinary instruments and apparatus and parts (10)
BYKANULA, 759,398, by Byk-Gulden Lomberg Chemische Fabrik G.m.b.H., Konstanz, Germany.

From the "Trade Marks Journal," January 30
For all goods (1)

GOHSENL, 752,259, by Nippon Gosei Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan, FI-VI, 759,485, by Whiffen & Sons, Ltd., London, S.W.6. ARIDEX, 759,678, by Laporte Chemicals, Ltd., London, W.1.

For starch for use in manufactures (1)
SOTACA, 759,032, by Acatos & Co., London, E.C.2.

For chemical substances used in industry (1)
HARSHAW, device with the word Harshaw, 759,561-62, by Harshaw Chemical Co., Cleveland, Ohio, U.S.A.

For substances for use as bases for perfumes (3)
HELIOCRETE, 741,378, by Schimmel Boehm, Ltd., London, W.1.

For cosmetics; and non-medicated toilet preparations for the skin (3)
ALPISUN, 755,763, by Hirsch Gregor Jacobson, London, W.2.

For non-medicated toilet preparations, perfumes, cosmetics, toilet articles, preparations for the hair, and soaps (3)

Device with the words TETE NOIRE, 751,185, by Hans Schwarzkopf, K.-G., Hamburg-Altona, Germany.

For carpet cleaning preparations (3)
CARPOCLEAN, B758,614, by Coliclean, Ltd., London, S.W.3.

For hair-growing preparations, hair restorers, hair preserving preparations, hair lotions and hair oil (3)

SULLANCO, 759,660, by Laurence Edgar Homewood, Purley, Surrey.

For Estrogenic preparations for pharmaceutical purposes (5)
STILBESTRONE, 738,522, by Cavendish Laboratories (Australasia), Ltd., Maidenhead, Berks.

For medicated creams for the treatment of the skin (5)
PANTODERMINE, 753,590, by Pharmax, Ltd., Bexleyheath, Kent.

For pharmaceutical preparations and substances (5)
PLECIGIL, 753,936, by Etablissements Clin-Byla, Paris, France. Device, 758,973, by Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts. STAVICIN, 759,156, by Boots Pure Drug Co., Ltd., Nottingham. NATUSOL, 759,300, by Thomas Kerfoot & Co., Ltd., Bardsley, Lancs.

For pharmaceutical preparations to aid digestion (5)
BIZZIES, 759,281, by D. R. Harris & Co., Ltd., London, S.W.1.

For antibiotics and antibiotic preparations (5)
SIGMAMYCIN, 756,585, by Chas. Pfizer & Co., Inc., New York, U.S.A.

For infants' and invalids' foods made from milk or derivatives of milk (5)
Device with the words RAINBOW BRAND, 754,958, and device with the word RAINBOW, 755,433, by Cooperatieve Vereeniging Tot Bereiding Van Melkproducten Korthedshalve Co-operatieve Condensfabriek Friesland, Leeuwarden, Netherlands.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, February 25

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Bull and Butcher hotel, Whetstone, London, at 8 p.m. Talk by a Customs and Excise officer.

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Woolwich Polytechnic, London, S.E.18, at 7.30 p.m. Dr. J. D. Kendall on "Organic Chemistry in the Photographic Industry."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, 38 New George Street, Plymouth, at 7.30 p.m. Talk on "The Art of Colour Harmony in Make-up" by a representative, Max Factor Hollywood and London (Sales), Ltd.

Tuesday, February 26

BRADFORD BRANCH, NATIONAL PHARMACEUTICAL UNION, Victoria hotel, at 7.45 p.m. Mr. G. Richmond on "Pensions for the Self-employed."

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, at 8 p.m. Dr. F. M. Stock on "Drug Testing."

Wednesday, February 27

FOOD GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.45 p.m. Mr. H. E. C. Powers on "Sucrose Crystal Studies."

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Gayton Hall hotel, Gayton Road, Harrow. At 6.30 p.m., dinner (ticket price 10s. 6d. from Miss H. I. Trapp, 91 Woodlands, N. Harrow); at 8 p.m., Dr. H. Davis (chief pharmacist, Ministry of Health) on "My Recent Tour in West Africa."

NEWCASTLE AND NORTHUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, lower suite, old assembly rooms, Westgate Road, Newcastle-on-Tyne, at 7.15 p.m. Annual dinner and dance.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, assembly house, Theatre Street, Norwich, at

7.30 p.m. Talk on "Skin Care and the Art of Make-up" by a representative, Yardley & Co., Ltd.

Thursday, February 28

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. J. C. Patek on "Organic Reagents."

LONDON SECTIONS, ROYAL INSTITUTE OF CHEMISTRY AND SOCIETY OF CHEMICAL INDUSTRY, Caxton Street, London, S.W.1. Buffet-dance.

NORTH STAFFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, North Stafford hotel, Stoke-on-Trent, at 6.15 p.m. Annual dinner and dance.

Friday, March 1

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Rougemont hotel, at 7.30 p.m. Mrs. Naylor (Max Factor Hollywood and London (Sales), Ltd.) on "You at Your Loveliest."

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial hotel, at 8 p.m. Mr. D. F. Lewis (Pharmaceutical Society) on "Ethics and Pharmacy."

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Y.W.C.A. lounge, 18 Slater Street, Liverpool, at 7.15 p.m. Film show by Imperial Chemical Industries, Ltd.

SOCIETY FOR ANALYTICAL CHEMISTRY, Royal Society, Burlington House, Piccadilly, London, W.1. At 2.45 p.m., annual meeting; at 7.15 p.m., biennial dinner.

SOCIETY OF COSMETIC CHEMISTS, Royal Society of Arts, John Adam Street, London, W.C.2, at 7.30 p.m. Dr. T. R. E. Kressman on "Ion-exchange Resins."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Lambeth town hall, London, S.W.2, at 8 p.m. Mr. A. Aldington (chairman, National Pharmaceutical Union) on "Your N.H.S. Problems."

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies.

Sunday, March 3

LONDON: Endocil. Meggezons cough syrup. Gilbey's tonic wine. Marigold house gloves.

MIDLAND: Milton. Penetrol inhalant. Loxene. Mistol. Elastoplast. Nivea. Strix.

NORTH: Penetrol inhalant. Elastoplast. Nivea. Strix. Anadin.

ALL: Max Factor products. Vinolia baby products. Gibbs' S.R. Pacquins. Pepsodent.

Monday, March 4

LONDON: Silvikrin shampoo. Beecham's powders. Alka-Seltzer. Plenamins. Gibbs' S.R. Sanatogen tonic wine. Elastoplast. Nivea. Pure Silvikrin. Angiers Supavite. Anadin. Anne French products.

MIDLAND: Milton. Gilbey's tonic wine. Sanatogen tonic wine. Plenamins. Anadin.

NORTH: Silvikrin shampoo. Silvikrin hair dressing. Beecham's pills. Moorland indigestion tablets. Zoflora. Pepsodent. Philishave.

Tuesday, March 5

LONDON: Beecham's powders. Phensic. Gilbey's tonic wine. Elastoplast. Nivea. Brylcreem. Vaseline hair cream. Mistol. Pepsodent.

MIDLAND: Gibbs' S.R. Max Factor products.

NORTH: Silvikrin shampoo. Beecham's pills. powders. Sanatogen tonic wine. Zoflora.

Wednesday, March 6

LONDON: Veno's cough mixture. Phensic. Brand's essence. Loxene. Gibbs' S.R. Elastoplast. Nivea. Vaseline hair cream. Zubes pastilles.

MIDLAND: Elastoplast. Nivea. Zubes pastilles.

NORTH: Silvikrin shampoo. Beecham's pills. powders. Veno's cough mixture. Phensic. Plenamins. Anadin.

Thursday, March 7

LONDON: Beecham's powders. Veno's cough mixture. Phensic. Brand's essence. Cojone tablets. Zubes pastilles. Moore's teething jelly.

MIDLAND: Gibbs' S.R. Anne French products.

NORTH: Silvikrin shampoo. Beecham's pills. powders. Veno's cough mixture. Loxene. Gibbs' S.R. tooth-paste. Zubes pastilles.

Friday, March 8

LONDON: Silvikrin shampoo. Beecham's powders. Veno's cough mixture. Phensic. Pure Silvikrin. Endocil. Snowfire wave set. D.P. hand cleanser.

MIDLAND: Elastoplast. Nivea. Anadin.

NORTH: Silvikrin shampoo. Beecham's pills. powders. Veno's cough mixture. Phensic. Gilbey's tonic wine. Gibbs' S.R. Elastoplast. Nivea. Mistol.

ALL: Pepsodent.

Saturday, March 9

LONDON: Alka-Seltzer. Meggezons cough syrup. Vaseline hair cream. Marigold house gloves. Lincoln beer shampoo. Max Factor products. Anne French products.

MIDLAND: Gilbey's tonic wine. Angiers Supavite.

NORTH: Gilbey's tonic wine. Angiers Supavite. Silvikrin shampoo. Pepsodent. Wilkinson's sword-edge razor blades. Pacquins. Vita-glucose tablets. Penetrol inhalant. Moorland indigestion tablets. Anadin.

Other products which are being currently advertised (but for which no day of showing has been notified) include: Care hand cream. Cussons cold cream soap. Ammi-dent. Cow and Gate cereal food. Thompson & Capper, Ltd., products. Haliborange. Gauntlet barrier cream. Barteaux sun glasses.

PRESS ADVERTISING

BOWATER-SOTT CORPORATION, LTD., St. Andrew Road, London, E.17: *Andrex. In Daily Express, Daily Mail, Daily Telegraph, Woman and other women's magazines.*

ORGANON LABORATORIES, LTD., Lancaster Place, London, W.C.2: *Endocil. In women's journals.*

PUBLICATIONS Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

THE BRITISH DRUG HOUSES, LTD., City Road, London, N.1: *"Ancolovin for Nausea and*

Vomiting of Pregnancy," "Pectamol Linctus" (4-p. folders).

ORGANON LABORATORIES, LTD., Lancaster Place, London, W.C.2: *"Prednisone and Prednisolone" (11-p. booklet).*

RIKER LABORATORIES, LTD., Loughborough, Leics: *"Therapy of Hypertension" (four 20-p. booklets).*

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: *"Androstalone, Non-Virilising Androgen" (8-p. folder, and dosage chart).*

DISPLAY

SILMOR DISTRIBUTING CO., 34 Caledonian Road, King's Cross, London, N.1: *Showcard 14½ x 12½ in. for André Phillippe foam bubble bath linking with the film "The Opposite Sex."*



Showcard produced for Vitavel syrup by Vitamin Products, Ltd., Upper Mall, London, W.6.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; I.R.P.=Inclusive Retail Price; *Tax 30 per cent.; †Tax 90 per cent.

COLGATE-PALMOLIVE, LTD. (from February 18) I.R.P. 1 7 A

Lustre creme shampoo* Doz. 8 9 1 8 A

Amami wave set† 15 7 3 0 A

Vosene shampoo* 13 9 1 11 A

28 4 3 11 A

JOHN WYETH & BRO., LTD. (from February 25)

Petrolagar emulsion* Each 8 oz. 2 6 4 0 A

Nos 1 and 2 16 oz. 4 3½ 7 0 A

Proctoids hæmorrhoidal suppositories 48 12 9 A

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

SAUNDERS (J. TOUZEAU) PREPARATIONS (BUTLER & CRISPE, LTD.) Doz.

Ninona baby powder* 12 0 1 9½ A

P.A.T.A. Year Book corrections:—

AIRWICK, LTD. Air-Wick domestic mist 56 10 5 11

HILL'S BALSAM, LTD. Hill's Bronchial Balsam:—The manufacturers point out that new packs have been issued and the references to 4- and 8-oz. sizes are no longer applicable. Prices are unchanged.

ADDITIONS TO THE LIST

KIMBERLY-CLARK, LTD. Kotex sanitary towels 9 0 1 0

18 3 2 0

Klecnex tissues 2 8 4

9 0 1 0

18 0 2 0

24 9 2 9

Delsey toilet rolls 11 0 1 3

20 0 2 4

MAX FACTOR HOLLYWOOD AND LONDON (SALES), LTD.

Astringent† 36 0 7 1

foundation† 36 0 7 1

Brillox (liquid and jelle)† 20 0 3 11

Cleansing cream† 20 0 3 11

Creme puff de luxe gilt compact† 136 0 26 8

Dry skin cream† 36 0 7 1

Electrique Cologne† 40 0 7 10

68 0 13 4

talc† 20 0 3 11

Erase† 42 0 8 3

Eye-brow pencil† 20 0 3 11

Eyebrow pencil† 36 0 7 1

Eyebrow pencil† 20 0 3 11

Eyebrow pencil† 20 0 3 11

Eyebrow pencil† 20 0 3 11

Eyebrow pencil† 20 0 3 11

Eyebrow pencil† 20 0 3 11

Eyebrow pencil† 20 0 3 11

Eyebrow pencil† 20 0 3 11

Eyebrow pencil† 20 0 3 11

Air strip first aid dressings	8 6	1 0
	17 0	2 0
boil dressings*	7 6	1 1
Sleek plastic strapping	8 3	1 0

NEW PRODUCTS AND PACKS

BOOTS PURE DRUG CO., LTD. Novobioicin tablets

250 mgm. 16 48 0 64 0

100 288 0 384 0

COTY (ENGLAND), LTD. Rose amaranth lipstick†

refill† 7 6

5 0

ELSAN MFG. CO. Elsanair block 1 3

IMPERIAL CHEMICAL INDUSTRIES, LTD., PHARMACEUTICALS DIVISION

Doz. Penavlon V tablets 15 82 0 10 3

100 466 0 58 3

500 2,208 0 276 0

INDUSTRIAL APPLIANCES, LTD. Poly-tainer polythene water

bottle 16 oz. 3 6

32 oz. 4 11

PHILIPS ELECTRICAL, LTD. Philishave standard shaver*

(new model) 137 6

battery shaver* (new model) 152 6

STEWART, GOODALL & DUNLOP, LTD. Nuctea cream shampoo* tube 1 3

JOHN WYETH & BRO., LTD. Sparine tablets

25 mgm 50 6 0 8 0

250 27 9 37 0

50 mgm. 50 11 6 15 4

250 52 4 69 9

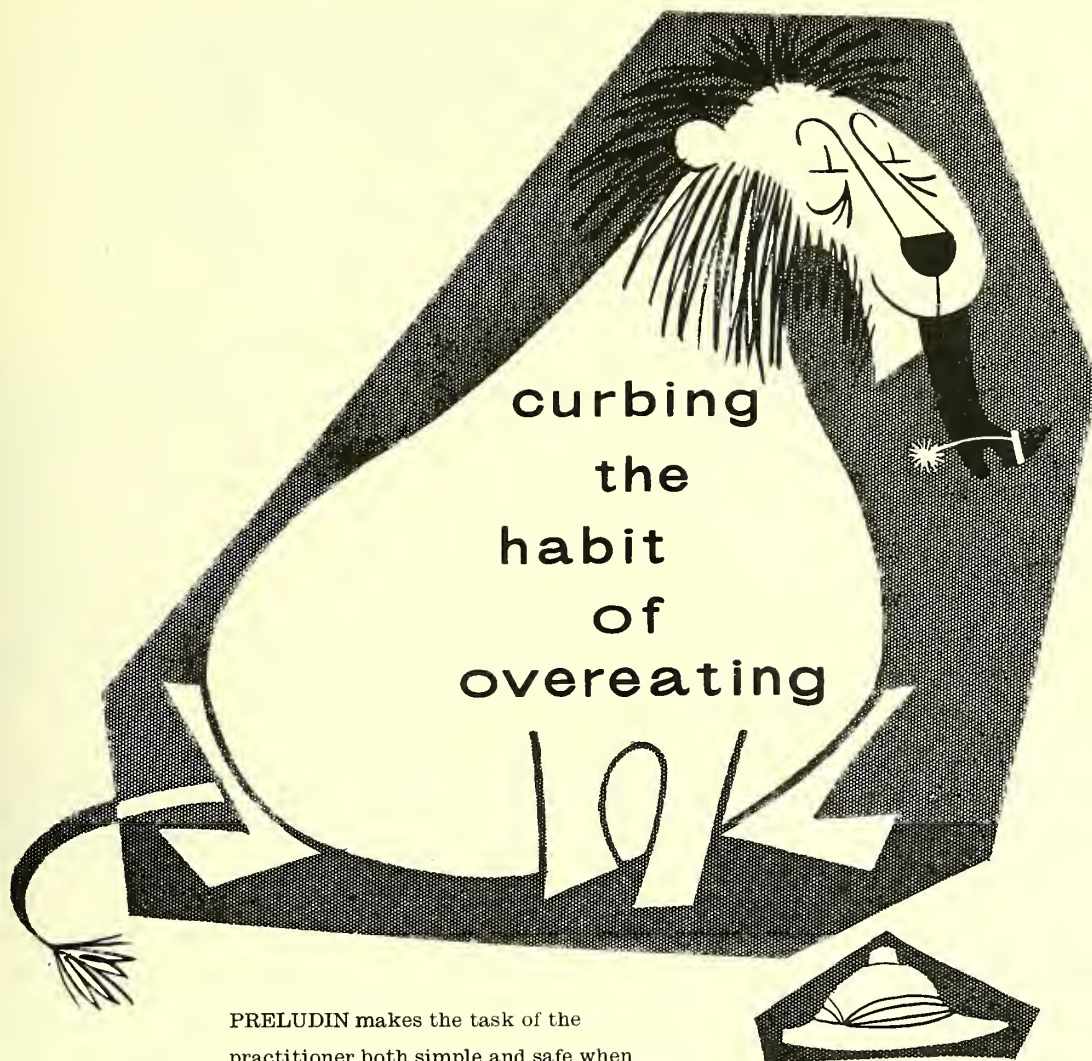
100 mgm. 50 21 8 28 11

250 102 6 136 8

ampoules 2 c.c. 10 11 0 14 8

Isolevin sublingual tablets 4 9 6 4

spray solution 3 6 4 8



curbing
the
habit
of
overeating

PRELUDIN makes the task of the practitioner both simple and safe when dealing with cases of obesity.

PRELUDIN is an appetite controlling agent which rapidly breaks the habit of overeating and enables the patient to adhere to a recommended diet without effort. Because it does not affect the heart or the blood pressure it is particularly suitable in cases of cardiovascular disorders or hypertension.

PRELUDIN is supplied in 25 mg. tablets, in tubes of 20 or bottles of 250.

PRELUDIN*

The appetite controlling agent that does not affect the heart

Brand of 2-phenyl-3-methyl-tetrahydro-1, 4-oxazine-hydrochloride



Manufactured and distributed in England by Pfizer Ltd., Folkestone, Kent, for
C. H. Boehringer Sohn, Ingelheim am Rhein
Registered proprietors of the Trade Mark *Regd. Trade Mark

ST. JAMES' BALM



*The ONE Ointment
for the
MANY Skin Troubles*

ST. JAMES' BALM is the proven remedy for common skin troubles—and for some quite uncommon ones too! Because it contains the broth filtrates of the microbes causing most skin infections, treatment is successful in an exceptional number of cases. ST. JAMES' BALM is therefore the ideal general-purpose ointment for family use. On merit alone, ST. JAMES' BALM is in steadily increasing demand. You may stock and recommend it with absolute confidence.

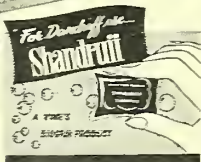


MEDICO-BIOLOGICAL LABORATORIES LTD.
CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25

FBI44

MORE TILLS
*are tinkling every
week*

Is yours? Have you ordered Shandruff yet? It's time you stocked this new money spinner, because as a 6d. sachet it is now doing big figures. Reasons
(1) It's very, very good
(2) It's most attractive
(3) It's an automatic "repeater." So



These neat little counter cards will aid your sales.

Price 42/- per gross sachets, plus P.T. AVAILABLE ON SALE OR RETURN
Overseas Enquiries to:
Gordon & Gotch, Ltd. (export division), 75-79 Farringdon St., London, E.C.4.
From your usual wholesaler and

VINES BIOCIN LIMITED
222-224, HARROW ROAD, LONDON, W.2
Telephone: CUNningham 1172-3

BEST-SELLERS
the ALL year round!



"Sun-tang"

'NIAGARA'
Blackcurrant Syrup

Sun-tang—made from whole oranges, sugar and glucose—contains Vitamin C, essential to good health. Retail Price 3'3d. per bottle.

Niagara—made from Blackcurrant juice and sugar—rich in Vitamin C—the perfect drink for young and old alike. Retail Price 3'4d. per bottle.

More customers are asking for both these delicious, health-giving drinks. Meet the extra demand by ordering ample stocks NOW and make sure of year-round profits.

BARNETT & FOSTER LTD.
QUEENSBIDGE ROAD, LONDON, E.8. Tel.: CLIssold 7132

SMALLER SIZE TRESS



Heavy advertising in
'WOMAN'
'WOMAN'S OWN'
'DAILY MIRROR' etc.
will reach
15,000,000 WOMEN
—widening the market for this
fast-selling wave-set

TRADE TERMS

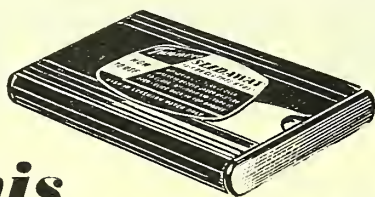
SMALL SIZE
Price 8 10d
per dozen bottles
plus 90% tax
selling at 1,9d per bottle.

LARGE SIZE
Price 14 5d
per dozen bottles
plus 90% tax
selling at 2'10½d per bottle.

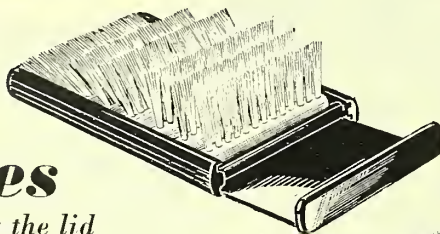
TRESS, already one of the biggest selling wave sets, reaches an even wider market with the addition of this half-size pack. Be sure you have stocks to meet an entirely new demand for 1 9d Tress. The large size still continues in demand by enthusiasts who have formed the habit of buying Tress at 2 10½d per bottle.

GOLDEN LIMITED, 7 GROSVENOR STREET, LONDON, W.1. Hyde Park 1671

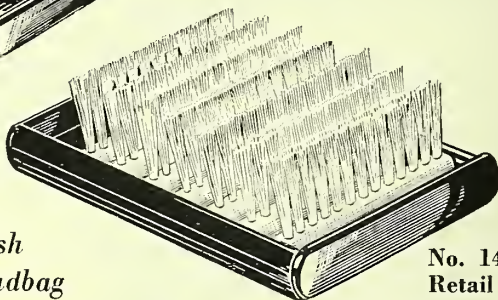
Trade Enquiries for the Republic of Ireland should be addressed to: Lilmar Pharmaceuticals, Ltd., Santry, Dublin.



this
sleek plastic case



becomes
by simply sliding the lid
under the bristles



this
superb pocket brush
Fits pocket or handbag

No. 140
Retail 5/11

CONTACT YOUR WHOLESALER NOW

MANUFACTURERS:

JARRETT RAINSFORD & LAUGHTON LTD., BIRMINGHAM 14
LONDON: 100 DEAN STREET, W.1. MANCHESTER: 11A HIGH STREET. GLASGOW: 60 ST. ENOCH'S SQUARE.

TO DISPLAY IS TO SELL

Simpkin's



The ORIGINAL
GLUCOSE
TABLETS

Retail price
10½d. per packet



Supplied through Qualified Chemists only

A. L. SIMPKIN & CO., LTD., SHEFFIELD, 6

WIN

the loyal

**Cuticura public
to YOUR Pharmacy**

Just one pack of each of the Cuticura Preparations in your attractive window will catch the eye of every Cuticura Customer. They know that the pharmacy that sells their Cuticura, stocks only the best.

STOCK AND DISPLAY

Cuticura

SOAP
OINTMENT
HAND CREAM
SHAVING STICK
TALCUM POWDER
MEDICATED LIQUID

Only 'Bubbly' Stergene



washes wool, silk,
rayon, nylon and 'Terylene'
REALLY WHITE — and
colours **BRIGHT**,

restores 'yellowed'
nylon or rayon
garments to their
original whiteness,

gives a 'balanced'
lather — enough
for the wash; but
completely dispersed
with one rinse.

can be confidently recommended

'Bubbly'

Stergene

*specialty
made for fine
fabrics*

Leaflets available on request.

DOMESTOS LIMITED, COLLEGE WORKS, ALBION ROW, NEWCASTLE UPON TYNE, 6.

DISPLAY AND SELL

THE **SALTER** "MAYFAIR"

PERSONAL WEIGHER

Today, with more and more people becoming interested in dieting and slimming for both health and beauty reasons, it pays to stock, display and sell the "Mayfair" personal machine. Check these advantages and you will see why the "Mayfair" is one of today's best sellers.

- Priced at only 79/6d. including tax.
- Rubber-encased platform gives a non-slip weighing surface, with no dust or water trapping crevices. It also prevents damage to skirting boards.
- Streamlined design for easy cleaning.
- Graduated 20 stone x 1 lb.
- Strong, compact and easily portable.
- It is made in the Midlands of England, by Salter—makers of weighing machines for nearly 200 years.
- A full-colour showcard is available free on request for point-of-sale display.



ONLY
79/6



**NATIONALLY
ADVERTISED IN**

*John Bull, Woman
and Beauty, Vanity Fair,
Britannia and Eve,
Everywoman, Good House-
keeping, Ideal Home,
Reader's Digest.*

* For those who prefer the full view dial type machine we recommend the popular Grosvenor and Windsor models.

Geo. Salter & Co. Ltd., West Bromwich.

Monsanto works constantly
both to develop new,
better chemicals
— and to improve those
chemicals you already use . . .

ACETYLSALICYLIC ACID B.P.

PHENACETIN B.P.

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help industry —

to bring a

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**FOLEY PLASTICS MANUFACTURING
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Your Ref: Satisfied

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Dear Sirs,

We thank you for your esteemed enquiry and
have pleasure in submitting our estimate as follows:—

**To Plastic Moulding small components for
Pharmaceutical and Allied Trades**

Mould Costs	Charges Low or Nil
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Materials	P.V.C., Polythene, Cellulose Acetate, Polystyrene, Nylon
Delivery.....	Normally Samples in 28 days

Yours faithfully

**Foley Plastics Manufacturing
Company Ltd.**

Messrs.
The Pharmaceuticals Industries
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***The
recognised house
for Ethicals
in the North-East***

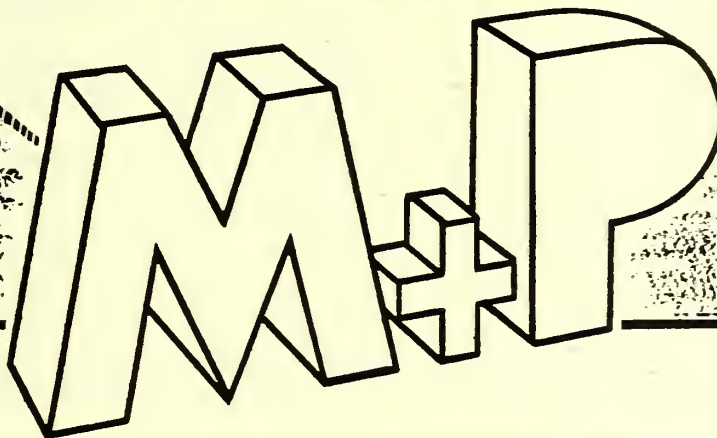
One of the most comprehensive selections of medical preparations outside of London is to be found in the M+P Ethical Showrooms, where all leading manufacturers are represented.

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All of which are very good reasons why you should send your next order to M+P for prompt service and absolute dependability.

For Ethicals, Sundries, Dressings, and all Medical Supplies



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Telephone: Newcastle 29751 (8 lines)

Chemist's Stamp

Mr. Mrs. Miss } *Rawlinson*
(name and initials of patient)

Age, if under fourteen years

Address *The Cedars*
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Pricing Office

Elastic Stockings
2-way stretch

In a case like
this.... dispense
BURSON

Burson Stockings, made exclusively on special knitting looms, are the product of many years' intensive research into the making of surgical stockings.

Always dispense and recommend Burson 2-Way Stretch Hosiery and ensure your customers' complete satisfaction. The quality—finish—colour and durability of Burson Hose make them the first choice of those who appreciate the best. Burson Stockings are fully fashioned and virtually indiscernible in use.

Burson Stockings are advertised in the Medical Journals and in a strong list of National Weekly Newspapers and Women's Magazines.

DISPENSE BURSON whenever
2-way stretch elastic or
Lastex hosiery is prescribed

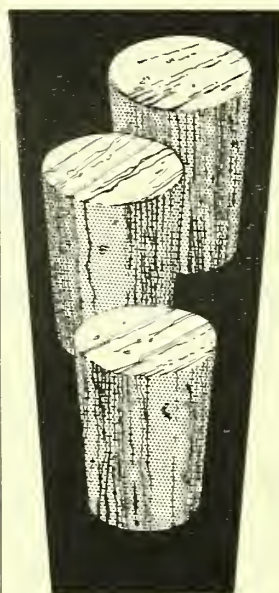
AVAILABLE FREE ON REQUEST WITH BURSON STOCKINGS:—

- Instruction Chart with details for measuring, fitting and exact adjustment to fit and tension.
- Individual Measurement and Order Forms.
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- Illustrated leaflets for your customers.

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TWO-WAY STRETCH HOSE
IS MADE FROM LASTEX YARN

Sole Distributors:— FASSETT & JOHNSON LTD.,
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CORKS

PRESCRIPTION BOTTLES

require top grade cork stoppers which permit no leakage.

Chemists who know from experience, continually specify Robinson Corks — the first class quality never varies.

Write for full details
and prices to:—



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CORK GROWERS LTD.

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VITAMIN D3

PURE CRYSTALLINE D3

FINE CHEMICALS

Manufacturers:
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ADRENALINE	FOLIC ACID	PHENAZONE
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CARMINE	PAPAIN	SAFFRON
CAMPHOR	PAPAVERINE	THYROID
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MEDICAL SPECIALITIES

"KADAMYSIN"
for bronchial asthma
(In boxes of 10 x 1 ml. ampoules)

"DEGALAN"
for haemorrhoids
Ointment and Suppositories (Boxes of 10)

VETERINARY

"DEVATOL-A" TABLETS

*An invigorator and tonic for
all domestic animals*



ESSENTIAL OILS

ANISEED · BAY · CAJUPUT · JUNIPER · PEPPERMINT · ETC., ETC.

Dega Brand Specialities

Terpeneless Essential Oils and Isolates



PERFUME CONCENTRATES

We manufacture a wide range of floral and speciality bouquets for all classes of trade.

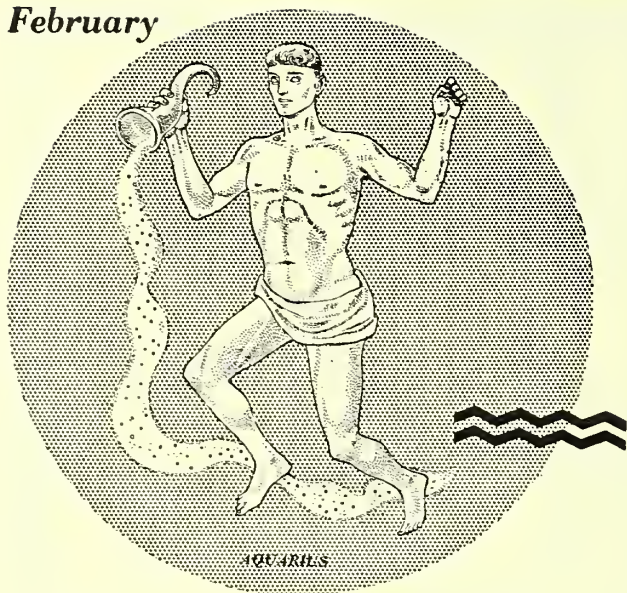


Chas. Zimmermann & Co. Ltd., Dega Works, Walmgate Road, Perivale, Middlesex

Phone: Perivale 9121 (4 lines)

Grams: Acidolan, Greenford, Middx.

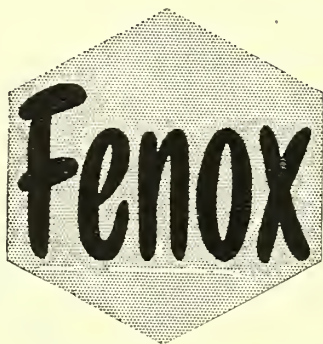
February



*at this time
of the year...*

The increase in the upper respiratory tract infection calls for the discriminating use of a safe and efficient nasal decongestant

IN A WORD...



NASAL DROPS

*Isotonic Nasal Drops of Phenylephrine and Naphazoline.
Basic N.H.S. price 1/8 per 1/2 fl. oz. dropper bottle.*

Available from your usual wholesaler or from Wholesale Division of
BOOTS PURE DRUG COMPANY LIMITED
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OR 71 FLEET ST., LONDON, E.C.4. TEL: FLEET 0111



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and all other Botanicals, Gums,
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NEW YORK · HAMBURG

A Bengue-Bailly Product

GROMIDIN

Sub-lingual
TABLETS

Each tablet contains 0.25 mg. Pure Gramicidin, an antibiotic of microbial origin. It is a cyclic polypeptide containing various amino-acids (Glycine-Alanine-Valine-Leucine-Tryptophane) and Ethanolamine.

POSODOLOGY
5 to 10 tablets
daily, to be
dissolved slowly in
the mouth.

Indications: Treatment and prophylaxis of rhino-pharyngeal, laryngeal, buccal and dental affections. Also in treatment of bronchitis.



PACKING:
Tin of 25 tablets

YOUR PRICE:
31/6 per dozen

RETAILING AT
3/6 per tin



BENGUE & CO. LTD.

Manufacturing Chemists

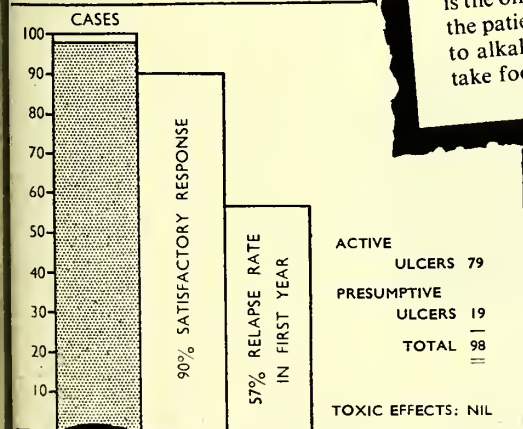
MOUNT PLEASANT · ALPERTON · WEMBLEY · MID

An assessment of Roter therapy in PEPTIC ULCER

... Satisfactory response in 90% of cases."

Roter tablets contain a balanced content of recognised buffers with supportive carminative and mildly laxative agents.

FORMULA PER TABLET
Magnesium Carbonate (400 mg.),
Cadmium Subnitrate (350 mg.), Sodium
Carbonate (200 mg.), Rhizoma
Zingiberis (25 mg.), and Cortex Rhamni
Frangulae (25 mg.).



Results

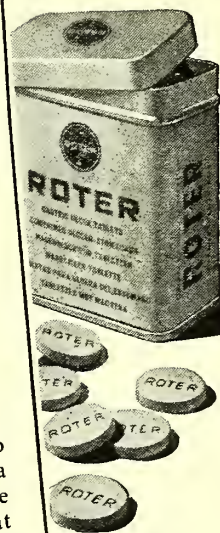
"The immediate clinical results were assessed after the first month's treatment in four main groups: (A) pronounced relief (symptom free); (B) definite relief (minor symptoms with no pain); (C) doubtful relief (symptoms persisting but improved); (D) no relief.

"Table II shows that 81% of cases became symptom-free—70% of them during the first week and 30% during the second week; a further 9% were relieved of the majority of their symptoms. Thus there was a satisfactory response in 90% of cases.

TABLE II

Group	Active Ulcers	Presumptive Ulcers	Totals
A	63 (79.6%)	17 (89.0%)	80 (81.7%)
B	8 (10.2%)	1 (5.5%)	9 (9.2%)
C	6 (7.6%)	1 (5.5%)	7 (7.1%)
D	2 (2.5%)	0 (—)	2 (2.0%)
TOTALS	79 (100%)	19 (100%)	98 (100%)

"Four of the nine cases in groups C and D have elected to go to surgery, and one of the remaining cases has a hiatus hernia as well as a duodenal ulcer. Experience of treating these 'Failures' over the past six years leads one to believe that no form of medical treatment will be effective and that surgery is the only hope of relieving their symptoms. In 75% of cases the patients were of the opinion that the tablets were superior to alkaline powders, and they found that they were able to take foods which they had avoided for years."



Extracts from the
BRITISH MEDICAL JOURNAL
1955, 2, 827

"SUMMARY: Seventy-nine cases of peptic ulcer and 19 of presumptive peptic ulcer have been treated with Roter tablets. Immediate clinical response was satisfactory in 90% of patients, with a relapse rate of 57% in the first year; a reduction in the average number of relapses was recorded in 15 cases kept on a maintenance dose for one year."

PACKINGS: Retail Prices including P.T., Trial size 40 tablets 7/5d., Standard size 120 tablets 21/3d., Full Treatment size 640 tablets 106/6d.; Dispensing packs 720 tablets, P.T. exempt.

Obtainable from your usual wholesaler.

Roter Tablets are not advertised to the public, and may be prescribed on E.C.10 forms. Literature and samples on request.

ROTER TABLETS

F.A.I.R. LABORATORIES LTD., TWICKENHAM, MIDDLESEX

*There is no secret
behind the
success of*

INECTO

Colour Creme

It is the best and most up-to-date permanent hair-tinting preparation on the market.

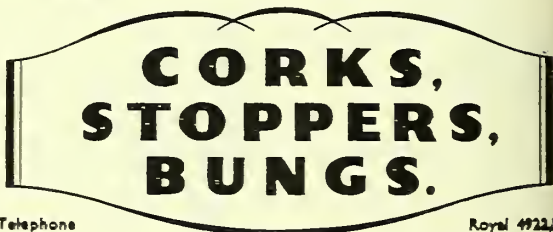
Complete and ready for use, with enclosed picture directions. There is a comprehensive range of 18 lovely natural shades from Deep Black to Light Blonde.

*From your wholesaler
3/4 plus P.T.
8/- retail.*



*please ask for
shade indicator*

Enquiry Bureau: **INECTO HOUSE,**
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HYDe Park 7541 (12 lines)



Telephone

Royal 4922,3

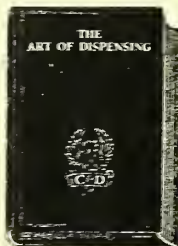
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LEMAN STREET, LONDON, E.1.**

A Modern Version of an Old Favourite

The Art of Dispensing

Now Completely re-written

Price 21/-
(postage 1/3)



"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter. This treatise on the methods and processes involved in compounding medical prescriptions has proved of untold value to generations of pharmacists and may, indeed, be regarded as the classical work on this subject. Many of the difficulties and perplexities met with in the daily

practice of the art and craft of pharmacy are explained in simple yet concise fashion. This book is a necessary part of the equipment of every dispensary. New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.

Order from your Bookseller or direct from The Publisher:

The
CHEMIST AND DRUGGIST
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Prednisone / Prednisolone

GENERAL RELEASE

The release of products containing Prednisone and Prednisolone for prescription by General Medical Practitioners on form E.C.10 has been announced by the Ministry of Health.

Merck Sharp & Dohme offer a complete range of packs.

'DELTACORTONE' (Prednisone)

TRADE MARK

Delta analogue of Cortisone

'CODELCORTONE' (Prednisolone)

TRADE MARK

Delta analogue of Hydrocortisone

Prednisone and Prednisolone, the delta analogues of Cortisone and Hydrocortisone, produce anti-inflammatory, anti-rheumatic and anti-allergic effects similar to those of Cortisone and Hydrocortisone but with considerably lower dosage.

Evidence suggests that sodium retention and potassium excretion are not so pronounced with the recommended doses of 'DELTACORTONE' and 'CODELCORTONE' as with the higher doses of Cortisone and Hydrocortisone necessary for an adequate therapeutic response.

'DELTACORTONE' and 'CODELCORTONE' are supplied as 5 mg. tablets in the following packs:— 30 (37/6d), 100 (120/-d), and 500 (580/-d). Net Trade Prices, exempt Purchase Tax.



MERCK SHARP & DOHME LIMITED, HODDESDON, HERTS

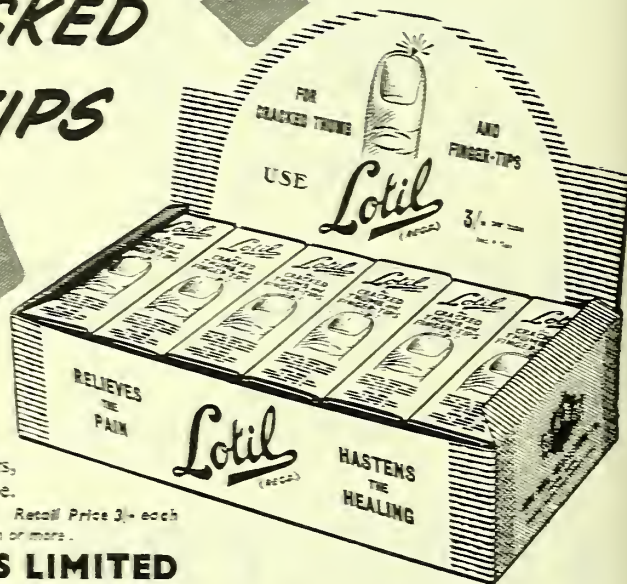
Now... a treatment

for **CRACKED
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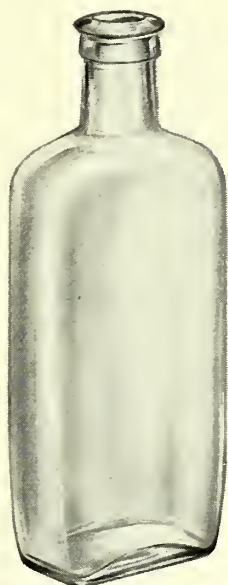
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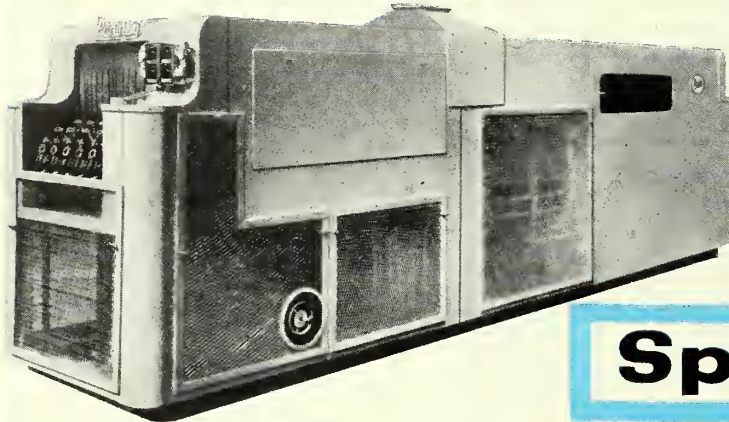
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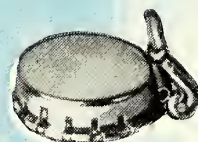
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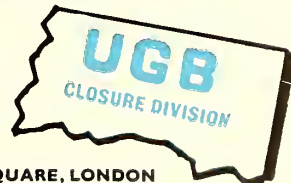
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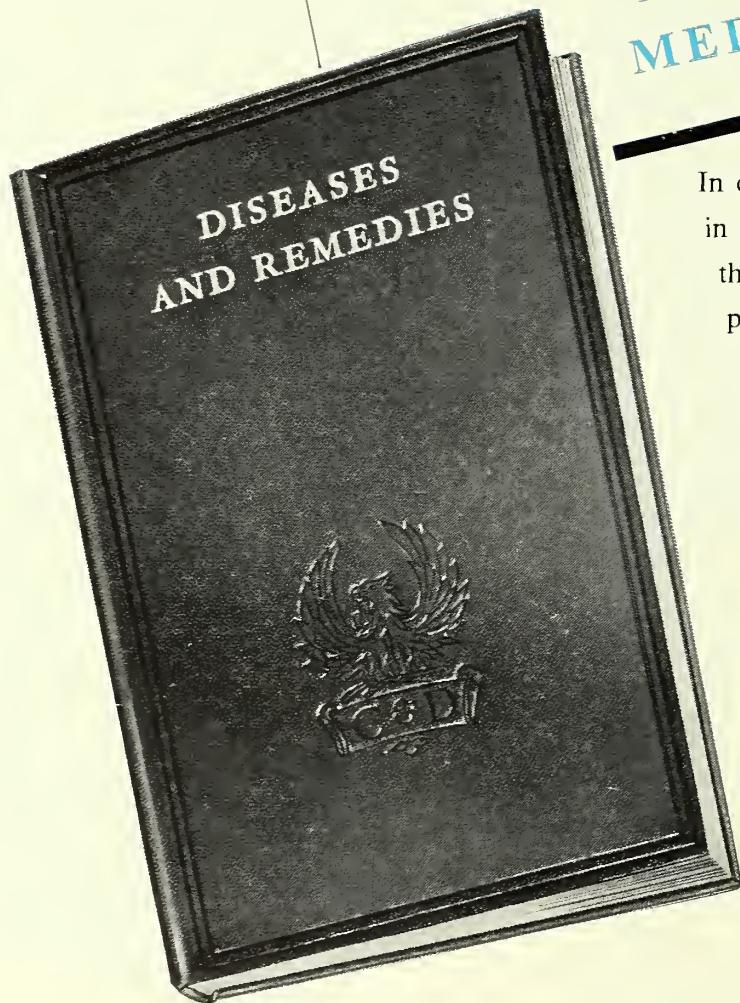
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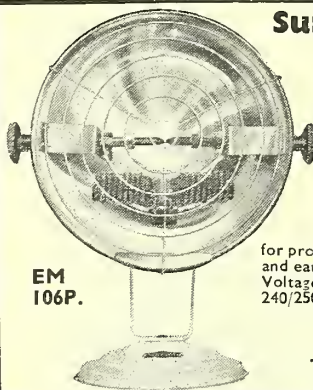


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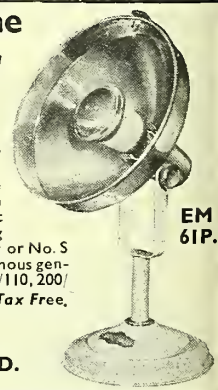
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Applications are invited for the appointment of Pharmacist (male or female). The position offers excellent experience. Salary in accordance with Whitley Council agreements. Applications stating age, experience and qualifications, together with the names of two referees to the Group Secretary. C 6241

BRENTWOOD GROUP HOSPITAL MANAGEMENT COMMITTEE

Deputy Chief Pharmacist

Applications invited for Deputy Chief Pharmacist at Harold Wood Hospital, which is 20 minutes journey from Liverpool Street by electric train services. The appointment will include relief duties at other hospitals in the Group as required. Salary scale £675 p.a.—£910 p.a. Whitley Council conditions of service. Temporary accommodation can be provided if required. Applications, stating age and experience, together with the names of two referees, should be sent to The Chief Pharmacist, Harold Wood Hospital, Harold Wood, Essex, as soon as possible. C 6215

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, N.W.10

Senior Pharmacist

required at the above hospital. Salary on Whitley Council Scale. Applications are invited giving details of age, qualifications and experience, together with names of two referees to Medical Director. C 6240

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(405 beds for diseases of the chest)

Senior Pharmacist

required. Whitley Council scale, including London Weighting (also £25 per annum for higher qualification if appropriate). Department serves other hospitals. Applications, stating age, qualifications, experience, and giving names of two referees, to be sent to the Medical Director. C 312

FINCHLEY MEMORIAL HOSPITAL, GRANVILLE ROAD, NORTH FINCHLEY, N.12

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20-24 hours weekly, suitable for married woman. Whitley salary. Apply to Hospital Secretary. C 313

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Lecturer

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Pharmacist or Senior Pharmacist

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ST. MARY ABBOTS HOSPITAL, MARLOES ROAD, KENSINGTON, W.8

Senior Pharmacist

required. National salary scale and conditions. Applications with full particulars and names of two referees to Hospital Secretary (C.D. 196) immediately. C 6245

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(a) Senior Pharmacist (Category III) (b) Pharmacist

Applications are invited for the post of Senior Pharmacist (Category III) at the above busy general hospital, half-an-hour from Central London.

Pharmacist also required. This is a newly-created post to meet the needs of a busy and expanding department, and would be suitable for a newly-qualified Pharmacist. Whitley Council salaries and conditions. Applications stating age, qualifications and experience to the Chief Pharmacist as soon as possible. C 6193

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Chief Pharmacist

at the above-named Hospital. Salary within the range of £785 p.a. rising by eight varying increments to an eventual maximum of £1,070 p.a. Applications, stating age, experience, qualifications and giving names of two referees, should be addressed to the undersigned as soon as possible.

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ISLEWORTH, MIDDLESEX**

Pharmacist or Assistant-in-Dispensing

required, part-time. Whitley salary and conditions applicable. Applications stating age, qualifications and experience, with names of two referees to Chief Pharmacist. C 6250

**WORTHING GROUP HOSPITAL
MANAGEMENT COMMITTEE,
WORTHING HOSPITAL,
LYNDHURST ROAD,
WORTHING, SUSSEX**

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Applications are invited for the appointment of Pharmacist (male or female) for duties in new department recently opened. Salary and conditions of service in accordance with Pharmaceutical Whitley Council Scale. Applications stating age, qualifications and experience, together with the names of two referees to be forwarded to the Hospital Secretary.

A. V. OAKTON, Group Secretary. C 309

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Applications are invited from pharmacists or suitably qualified medical auxiliaries.

Apply in writing in the first instance to the General Sales Manager, Riker Laboratories, Limited, Morley Street, Loughborough, Leicestershire. C 6211

A VACANCY occurs in the Medical Service Department for a pharmacist, not more than 30 years of age, with a literary bent. Duties will include the handling of a wide variety of technical queries and the compilation and revision of literature on the Company's products. He will later assist with the training of representatives and will have the opportunity of lecturing to professional bodies. A knowledge of one or more foreign languages would be an advantage, but is not essential. Five-day week. Pension plan. Staff restaurant. Write in the first place for application form to: The Personnel Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow, Middlesex. C 6216

ENTERPRISING FIRM of manufacturing chemists supplying hair preparations to retail and wholesale chemists and ladies' hairdressers require first-class representatives with live connections in the Midlands and the north, on salary, expenses and commission basis. Apply with fullest details to Box C 6251.

JUNIOR REPRESENTATIVE required for Newcastle area, by rapidly expanding manufacturers selling nationally advertised product to chemists. Salary, commission, expenses allowance and car provided. Write with full particulars stating present position, age, salary and experience. Apply Box C 4429.

MANUFACTURERS of well-known insecticide have vacancies for representatives in Suffolk, Norfolk, Cambridgeshire, Lincolnshire, Essex, Kent, Huntingdonshire, to call on chemists and stores on commission basis. Linc well introduced all over the country and sales supported by intensive advertising. Please state territory covered and lines carried. Box C 4428.

MAY & BAKER, LTD., DAGENHAM, ESSEX, have a vacancy for a Pharmacist in their Development Laboratory, to carry out investigation of problems of manufacture and formulation in pharmaceutical preparation. Candidates should have a B.Pharm. or Ph.C. qualification. Contributory pension scheme. Apply initially in writing, quoting reference No. 150, to the Personnel Officer. C 6207

S. MAW SON & SONS, LTD.

Are you interested in making selling your career? Are you (a) between 25 and 30 years of age? (b) Single and in possession of clean car-driver's licence? (c) At present engaged in retail pharmacy or experienced in selling to chemists? (d) Prepared to undergo detailed training at these offices as a preliminary to appointment to our chemists' sales force?

If so, you should apply immediately for appointment as trainee chemist salesman. Salary according to qualifications will be paid during training. Apply in writing, giving full details to H.S.M., S. Maw Son & Sons, Ltd., Aldersgate House, Cromer Road, New Barnet, Herts. C 6222

OLD-ESTABLISHED Cork Manufacturers require representatives, already calling upon chemists. Commission basis only. All areas except South Coast. Write Box C 4415.

PRODUCTION WORKS CHEMIST (qualified) required by a firm of manufacturing chemists in the London area. Good salary with guaranteed yearly increase to the right person. Apply in strict confidence to Box C 6218.

INDIA**Attention of those interested in manufacturing their products in India.**

A reputed business house of Bombay, established 1920, and specialising in wholesale distribution, are prepared to take up agencies of pharmaceutical, toilet and allied lines already known in India with the object of manufacturing locally under licence or with a tie-up with manufacturers. Agreeable to subscribe 51 per cent, or more capital as required by law. All payments cash by Agents in London. Apply Box C 6239.

C. L. BENCARD LTD.

are again expanding their representative force and invite applications for three territories comprising

- (a) Lancashire, North of Preston, Westmorland and West Cumberland
- (b) Lincolnshire, Leicestershire, Rutlandshire and Soke of Peterborough
- (c) London teaching hospitals

Consideration will be given to men who have had previous experience of calling upon Doctors and Hospital Medical Staff. Applicants should be of outstanding personality and integrity. Attractive remuneration by salary, with all expenses paid.

A company car is provided (basic and supplementary coupons available). Applicants must hold a current driving licence and be prepared to live on the territory. Pension and profit sharing scheme in operation. Applications in writing with full details together with recent photograph (returnable) should be made to the Sales Manager, C. L. Bencard Ltd., Minerva Road, Park Royal, N.W.10. C 6212

Situations Vacant—Continued

MEDICAL REPRESENTATIVE required for Somerset, Dorset and East Devon; preferably 35-45; personality, enthusiasm and sales ability are prime requirements; pharmaceutical experience an advantage but an interest in medical technicalities and ability to learn quickly are an acceptable alternative; the post entails retailing highest quality pharmaceutical products to the medical profession and servicing the retail and wholesale pharmaceutical trade; company car provided; expenses allowed and a pension scheme is operated. Applications in writing, giving fullest details of education and experience, should be addressed to the Sales Manager, Lederle Laboratories Division, Cyanamid of Great Britain, Limited, Bush House, London, W.C.2. C 6228

MEDICAL REPRESENTATIVES

Due to the expansion of business Sandoz Products Limited invite applications from young men for the appointment of Medical Representatives in the following areas:—

- (1) Glasgow and North-West Scotland.
- (2) Aberdeen and North-East Scotland.
- (3) London, N.E., and Essex.

Attractive salary according to qualifications and experience. Superannuation scheme in operation. Thorough training given. Applicants should be either Physicians or Pharmacists. Please send full details of age, education, qualifications and experience, together with a photograph (which will be returned), to Sandoz Products Limited, Pharmaceutical Department, 134 Wigmore St., London, W.1. C 6224

THE BRITISH DRUG HOUSES, LTD., require a young male pharmacist, who has preferably completed his practical training in hospital or retail pharmacy, for Technical Information Department. The post provides sound training for a young man wishing to begin a career in the pharmaceutical industry. Five-day week, canteen, pension and profit sharing schemes. Write giving details of age, experience, qualifications and salary required to Staff Manager, Graham Street, City Road, N.1. C 6192

REPRESENTATIVES REQUIRED

Firm of repute in the pharmaceutical trade manufacturing a wide range of high-class products, well presented and supported, are expanding and wish to interview enthusiastic representatives who can really sell. Appointments for the following areas will be made in the next two months, South-east England, Lancashire, North Midlands, South Midlands, and the London area. Applicants should reside in area, be car owners and have had previous experience in the trade. Remuneration will be progressive, and mainly as salary. Car and hotel allowances.

If you are looking for a progressive position and are prepared really to work for it, send details of present and past employment to Box C 6237.

GEIGY PHARMACEUTICAL COMPANY LIMITED

desire to appoint Medical Representatives for the following territories:—

- (1) East Anglia (Norfolk, Suffolk and Cambridgeshire).
- (2) West Lancashire (Liverpool Area).

Applicants should be Pharmacists or possess a recognised scientific qualification. The salary offered will be above average, full expenses allowed and a car provided. An attractive superannuation scheme exists. Those who earnestly desire to work under most congenial conditions are invited to send fullest personal details which will be treated confidentially to:—The Sales Manager, Geigy Pharmaceutical Company Limited, Wythenshawe, Manchester. C 6235

MEDICAL REPRESENTATIVE—LIVERPOOL AREA

A vacancy has occurred in a large Pharmaceutical Manufacturing Company for a Representative to cover the Liverpool Area.

The position offers considerable scope to a young man who has either Pharmaceutical qualifications or a Pharmaceutical background.

A good commencing salary will be paid to the successful applicant and a car will be provided.

The Company operates a generous non-contributory Pension and Life Assurance Scheme.

Applications giving age, full details of career to date, etc., to Box C 6243, quoting reference MNG/15.

REPRESENTATIVE, mid-Surrey wholesale house, Surrey, Sussex, Hampshire, connection established. Experienced and own connection an advantage. Shares in company available. Present director elderly, suitable person would find unlimited scope. Business growing, building extension in progress. In confidence to Box C 4421.

THE CO-OPERATIVE WHOLESALE SOCIETY, LIMITED, require a representative to call on Co-operative Retail Chemists. The area covers the South of England and South Wales. Preference will be given to a pharmacist, but applications from unqualified persons with suitable experience would be considered. A car is provided and pension scheme operates. Write giving details of past experience, age, salary required to the C.W.S. Limited, Central Labour Department, 1 Balloon Street, Manchester, 4, endorsed Chemists' Representative. To be received before March 4, 1957. C 6231

THE CROOKES LABORATORIES invite applications from young and ambitious men, preferably with a medical or pharmaceutical background, for the post of representative in Warwickshire. The position combines propaganda with salesmanship, entails calling on the medical and veterinary professions, hospitals and chemists, and is salaried and pensionable. Applicants should send the fullest possible details of themselves to the Sales Director, The Crookes Laboratories, Limited, Gorst Road, London, N.W.10. C 6229

SALES EXECUTIVE for Dublin. Growing Irish company associated with international pharmaceutical manufacturer seeks executive assistant for general manager. A pharmaceutical qualification and outside selling experience are essential; knowledge of sales office routine desirable. Salary about £1,000. Interviews in London or Dublin. Box C 6220.

SCOTTISH COMPANY, manufacturing established pharmaceutical specialities, has vacancy for a representative to call on doctors and chemists in Scotland. Good salary, expenses, bonuses and pension scheme. Car provided, or allowance paid. Write giving age and experience to Box C 6225.

WM. R. WARNER & CO., LTD.

to complete their expansion programme, still have a few vacancies for men aged 25-35 who are ambitious and enthusiastic and who seek a career as **MEDICAL REPRESENTATIVES** in the pharmaceutical industry. The work is interesting, well paid and a car is provided. The appointments are permanent and progressive, providing opportunities for promotion in this country and overseas. The company operates a free pension scheme. A thorough training will be given to selected candidates before they move to their territories. Training course is arduous and only those with a medical background or ability to assimilate medical knowledge should apply. Applicants are advised that none of the vacancies is in the London area or the Home Counties. The company also has two vacancies for trainee representatives aged 22-25 who are free to move, possibly for short periods, to any part of the country to assist established representatives. Write in confidence for application form to Personnel Manager, Wm. R. Warner & Co., Ltd., Power Road, London, W.4. C 6246

YOUNG PHARMACIST, 25-30, required by pharmaceutical house, Central London, to fill new post of assistant to home sales manager. Previous sales or advertising experience an advantage but not essential. Good salary and prospects. Write Box C 6236.

BERDOE & FISH

Chemists' Transfer Agents and Valuers

41 ARGYLE SQUARE, KING'S CROSS, W.C.1
(opposite St. Pancras and King's Cross Stations)**Wanted immediately good class
businesses in London, Home Counties
and South Coast. Private clients
waiting with cash up to £10,000.**● All Valuations and Stocktakings, carried out under
personal supervision of principals.

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Situations Vacant—Continued**THE CROOKES LABORATORIES,
LIMITED**

Invite applications for a senior executive post of Advertising Manager. The successful candidate should have experience in preparing and controlling public advertising campaigns, and also in the compilation of ethical literature and pharmaceutical and medical propaganda. The position offers considerable scope to a man of ability and enthusiasm and is covered by a Staff Pension Scheme. Applications in full detail, stating salary required, to Sales Director, The Crookes Laboratories, Limited, Park Royal, London, N.W.10. C 6198

UNQUALIFIED (male) process workers required by old-established firm of pharmaceutical manufacturers in South London. Five-day week. Apply giving age, experience and salary expected to Box C 6219.

WHOLESALE (OVERSEAS)**WEST AFRICA**

OLD ESTABLISHED pharmaceutical house require Representative, aged 25-32, single, for periodical tours West Africa. Company's products have been known for many years to traders in Gold Coast and Nigeria where candidate would be required to travel. Position of interest and scope for man with flair for selling and keen to travel. Apply giving details of age, education and experience to Export Manager, Box C 6238.

AGENTS WANTED

AGENT required for East Coastal area to handle popular price range of branded products to chemists and hairdressers. 20 per cent. commission on all orders from area with prospect of engagement on permanent sales staff when selling ability proved. Full details of experience to: Dreston Laboratories, Turnpike Lane, London, N.8. C 4416

DISTRIBUTORS of the "Nymph" Facecloth require sole agents to call on retail chemists and stores. An attractive new pack in a polythene bag and carton dispenser assure regular repeats. Various territories available throughout the country. Applications with full details of area, connections, etc., in strict confidence. Box C 4422.

TRAVELLERS calling on retail chemists in Lancashire required to carry additional, profitable line on generous commission. Reply in confidence stating area. Box C 4426.

SITUATIONS WANTED**WHOLESALE**

REPRESENTATIVE, aged 36. Five years experience with wholesale trading to chemists, hairdressers and general stores, seeks permanent position with reputable house distributing to chemists, etc. Sussex area. Box C 4419.

REPRESENTATIVE regularly calling on stores, wholesale and retail chemists in London, is open to represent an additional well-established house, cosmetics or toiletries. Box C 4424.

A SALES EXECUTIVE, M.S.M.A., 54, over 20 years' experience with major companies as salesman, sales and marketing manager handling proprietary medicines and toiletries. Shortly disengaged due to a take over. Known to most buyers of note, lives in Middlesex and seeks an appointment where his extensive knowledge and experience can be used to mutual advantage. Own car. Box C 4411.

REPRESENTATIVE, well established connection with wholesale and retail chemists, etc., Warwickshire, Worcestershire, Leicestershire, South Staffs, offers conscientious service to firm of repute. Agencies considered. Car owner. Box C 4401.

SOUTH-WESTERN COUNTIES. Representative, resident Bristol, desires appointment with reputable house. Excellent knowledge of territory, chemists, etc. Box C 4414.

WHOLESALE (OVERSEAS)**UNITED STATES**

EXECUTIVE (35), successful record with leading pharmaceutical, toiletries, cosmetic companies in U.K. and overseas, languages, now on export sales staff of world-famous cosmetic manufacturers, emigrating shortly, would welcome suggestions, introductions leading to progressive opportunity in the U.S.A. Available for immediate interview. Please write Box C 4402.

BUSINESS OPPORTUNITIES

CAPITAL NEEDED for development of unique product with universal appeal and truly exceptional potentialities. Enquiries preferably from enterprising firms with national sales organisation. Thorough investigation welcomed. Information given personally to principals only. No correspondence. Box C 4430.

AGENCIES WANTED

WELL-ESTABLISHED wholesale manufacturing chemists based in Dublin, having excellent connections with wholesale and retail chemist trade, also hospitals throughout Eire, open to handle further agencies. Packing and storage facilities available. Box C 4418.

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ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks. Discontinued lines, Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 75 Fairfax Road, Swiss Cottage, London, N.W.6. C 153

LARGEST CASH BUYERS of photographic equipment of every description, outdated film and paper, etc. Spears, 14 Watling St., Shudehill, Manchester, 4. Phone: Blackfriars 1916. Bankers: Midland Bank, Ltd. C 306

MEDICAL BOTTLES, tablet bottles, closures and all types of packaging materials purchased, no quantity too large. Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4. Mansion House 3951-2. C 178

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THE BIOCHEMIC TABLETYour profit — 33 $\frac{1}{3}$ % on each sale!

WANTED: 5-10 tons of Phthalic Anhydride. Also surplus/redundant stocks of raw materials for the plastic industry. Box C 6234.

WANTED: Supplies of unwanted British chromic acid flakes. Box C 6227. **WE WILL PURCHASE** for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:— Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

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100 BAYS of brand new adjustable steel shelving, 72 in. high by 34 in. wide by 12 in. deep. Stove-enamelled bronze green. Sent knocked down—6 shelf bay—£3 15s. Sample delivered free. Quantity discounts. N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lancs. C 6035

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FOR SALE 600 gallons lavender disinfectant. Disposal below cost. Box C 6244.

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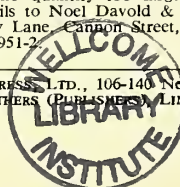
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| Niacinamide | 10.0 mg. | Soluble Liver Fraction | 470.0 mg. |
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